NAVAL POSTGRADUATE SCHOOL MONTEREY CA F/G 11/6 INVESTIGATION OF WELDING THERMAL STRAINS IN HIGH STRENGTH QUENC--ETC(U) AD-A075 251 JUN 78 M D LIPSEY UNCLASSIFIED NL 1 OF 2 AD A 075251 1 Name of

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# INVESTIGATION OF WELDING THERMAL STRAINS IN HIGH STRENGTH QUENCHED AND TEMPERED STEEL

by

#### MARK D. LIPSEY

Submitted to the Department of Ocean Engineering on May 12, 1978 in partial fulfillment of the requirements for the Degree of Ocean Engineer and to the Department of Materials Science and Engineering on May 12, 1978 in partial fulfillment of the requirements of the Degree of Master of Science in Materials Engineering.

#### ABSTRACT

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Recommendations are made which include a comparison of results with a two-dimensional computer analysis and a metallurgical characterization of both the weld metal and the base metal near the weld.

Thesis Supervisor: Koichi Masubuchi

Title: Professor of Ocean Engineering and Materials Science

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INVESTIGATION OF WELDING THERMAL STRAINS
IN HIGH STRENGTH QUENCHED AND TEMPERED STEEL

by

LT. MARK D. LIPSEY, USN

B.S., Metallurgy and Materials Science University of Pennsylvania (1970)

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#### CHAPTER I

#### INTRODUCTION

#### A. Background

Welding is the most widely used form of joining in the fabrication of marine structures. It is used almost exclusively in the fabrication of naval vessels for welding offers many advantages over other forms of joining. These advantages include a reduction in structural weight, an increase in structural strength, and ease of attaining air and water tightness. However, welding does suffer from a few disadvantages which derive from the local heating which occurs during the welding process. Complex thermal stresses which occur during welding may cause cracking and mismatching. High tensile residual stresses near the weld may promote fracture and fatigue crack propagation. Distortion and compressive residual stress may reduce the buckling strength of structural members.

For many years the development of high strength steels for use in submarines and deep diving submersibles has been pursued in order to lower structural weight, provide for an increase in depth, and to improve the safety characteristics of submersibles. The direction this development has taken is toward the use of quenched and tempered steels. By use of proper production procedures,

it is possible to achieve high strength levels as well as superior fracture toughness behavior in quenched and tempered steels. These two characteristics make the development of quenched and tempered steels highly desirable.

Since the mechanical properties of quenched and tempered steels are mainly derived from the heat treatment applied during production, it follows that the heat input which occurs during welding will have a large effect on the properties of the plate near the weld. The structure of the quenched and tempered steel will give rise to highly complex thermal strains near the weld. The exact nature of these strains is not well understood, but the ability to analytically predict the mechanical behavior of the weldment in these complex steels will avoid the huge costs of money, time, and manpower which would be required to empirically generate the data necessary to predict and avoid problems in all stages of fabrication. The key to analytically predicting and avoiding problems during the later stages of fabrication is to develop the ability to predict residual stresses and distortion resulting from welding. The most reliable method of achieving this aim is to accurately predict the thermal strains which occur in the metal near the weld line

during the entire welding process.

### B. Previous Work in Welding Analysis

The passage of a welding arc induces the formation of complex stresses and strains in the base metal near the weld line. This phenomenon is primarily due to the nature of the heat source in that a welding arc causes not only local heating but this local heating source is constantly moving. Therefore, the temperature distribution in the metal is non-uniform and it is this non-uniformity of temperature distribution which causes thermal strains to develop and change during the welding process. At the conclusion of welding, residual strains and stresses will remain in the metal.

The formation of thermal strains and stresses near the weld line in a low carbon steel, which is due to the passage of the welding arc, is best described by Masubuchi [10] and is repeated here.

"Figure 1 shows schematically how residual stresses are formed in a weld. Figure la shows a bead-on-plate weld in which a weld bead is being laid at a speed v.

O-xy is the coordinate axis; the origin, O, is on the surface underneath the welding arc, and the x direction lies in the direction of welding.

Figure 1b shows temperature distribution along several cross sections. Along Section A-A, which is ahead of the welding arc, the temperature change due to welding, AT, is almost zero (Figure 1b-1). Along Section B-B, which crosses the welding arc, the temperature distribution is very steep (Figure 1b-2). Along Section C-C, which is some distance behind the welding arc, the distribution of temperature change is as shown in Figure 1b-3. Along Section D-D, which is very far from the welding arc, the temperature change due to welding again diminishes (Figure 1b-4).

Figure 1c shows the distribution of stresses along these sections in the x direction,  $\sigma_{\mathbf{x}}$ . Stress in the y direction,  $\sigma_{\mathbf{y}}$ , and shearing stress,  $\tau_{\mathbf{xy}}$ , also exist in a two-dimensional stress field.

Along Section A-A, thermal stresses due to welding are almost zero (Figure 1c-1). The stress distribution along Section B-B is shown in Figure 1c-2. Stresses in areas underneath the welding arc are close to zero, because molten metal does not support loads. Stresses in areas somewhat away from the arc are compressive, because the expansion of these areas is restrained by surrounding areas that are heated to lower temperatures. Since the temperatures of these areas are quite high and the yield strength

of the material is low, stresses in these areas are as high as the yield strength of the material at corresponding temperatures. The amount of compressive stress increases with increasing distance from the weld or with decreasing temperature. However, stresses in areas away from the weld are tensile and balance with compressive stresses in areas near the weld. In other words,

$$\int_{\mathbf{x}} \mathbf{dy} = 0$$

across Section B-B. Thus, the stress distribution along Section B-B is as shown in Figure 1c-2.

Stresses are distributed along Section C-C as shown in Figure 1c-3. Since the weld-metal and base-metal regions near the weld have cooled, they try to shrink causing tensile stresses in areas close to the weld. As the distance from the weld increases, the stresses first change to compressive and then become tensile.

Figure 1c-4 shows the stress distribution along
Section D-D. High tensile stresses are produced in areas
near the weld, while compressive stresses are produced in
areas away from the weld. The distribution of residual
stresses that remain after welding is completed is shown
in the figure.

The cross-hatched area, MM', Figure la shows the region where plastic deformation occurs during the welding thermal cycle. The cross-hatched area near the origin O indicates the region where the metal is melted. The region outside the cross-hatched area remains elastic during the entire welding thermal cycle."

In the past twenty years, a number of research programs have been directed toward the development of analytical methods of analyzing the formation of these transient thermal strains and the resultant residual stresses and strains in weldments. In 1961, Tall [15] developed a simple computer program in the first significant attempt to use a computer in the analysis of thermal stresses during welding. In his study, temperature distribution was treated as a two-dimensional heat conduction problem but longitudinal stress, in the direction of the weld line, was assumed to be a function of the transverse distance only. Transverse stress and shear stress were assumed to be zero. This type of analysis was designated one-dimensional.

In 1968, Masubuchi, et.al. [11] further developed the above technique to handle thermal stresses in bead-on-plate welding. At MIT in 1970, Masubuchi [2] again improved the one-dimensional program. Later, Bryan [3] modified the

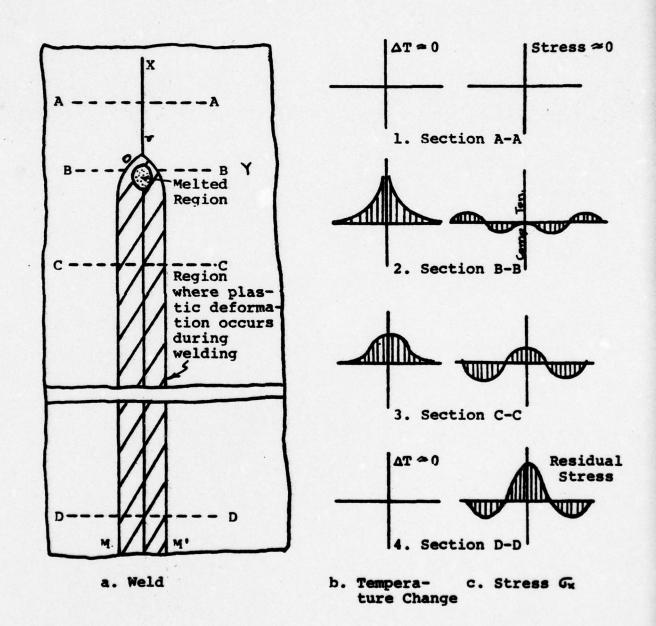


Figure 1 - Schematic Representation of Changes in Temperature and Stress During Welding

program so that different materials could be analyzed.

Provisions for multipass welding and heat losses from the surface were then incorporated into the program.

## C. Previous Work on High Strength Steels

At MIT, study of thermal stresses resulting from welding of high strength steels has been done in two programs. Most recently, Hwang [6] studied transient thermal strains during welding and residual stresses in high strength steels. This work complemented that reported by Klein [7,8] on transient thermal strains resulting from welding high strength marine steels.

Klein's study [7] of transient thermal strains concentrated on the quenched and tempered marine steels, HY-80 and HY-130. HY-80 specimens were 1/4 inch thick and 3/4 inch thick and were welded bead-on-plate. The HY-130 specimens were 3/4 inch thick and were multipass butt welded. Strain changes were measured on the specimen surface by electric resistance strain gages and temperature on the surface was measured by adhesive bonded thermocouples. The analytical predictions for HY-80 steel did not agree closely with experimental results. The results of multipass welding of HY-130 showed sudden strain changes which occurred following the passage of the welding arc.

It has been speculated that these sudden strain changes may have been due to phase transformations occurring during cooling of the base metal. Another result was that the strains observed near the weld line decreased as the strength level of the base metal increased.

## D. Aim and Purpose of Present Study

Most experimental work to date concerning transient thermal strains and stresses has been concentrated on single pass welding of thin plates. Where multipass welding has been studied, specimen plate thicknesses have not exceeded 3/4 inch. Because of this, it has not been adequately determined whether the computer programs developed to analytically predict thermal stresses and strains during welding are accurate for thicker sections.

The quenched and tempered steel to be used in future U.S. Navy submarines and deep-diving submersibles is HY-130. In order to achieve safe and efficient fabrication procedures for this steel, it is necessary to understand the formation of transient thermal strains during welding in order to be able to predict the residual stresses present after welding. Experimental data on transient thermal strains in thick plates of HY-130 are not extensive and further experiments to generate more data are needed to

increase the existing store of knowledge.

Therefore, the primary purpose of this investigation is to generate experimental data on transient thermal strains during welding of thick sections of HY-130 and low carbon steel. Experiments will consist of unrestrained butt welding by the multipass gas-metal-arc process.

Objectives of the experimental program include:

- (1) to verify previous experimental results on HY-130.
- (2) to determine the applicability of the MIT one-dimensional computer program to multipass welding of thick sections.
- (3) to provide useful information for the modification of the present program as well as for the development of more practical computer programs.

#### CHAPTER II

#### MATERIAL CHARACTERISTICS

The material chosen for this study is a high strength quenched and tempered steel which exhibits a minimum yield stress of 130 ksi. This steel has been developed by the U.S. Navy for use as hull plating and structural members in deep diving submersibles, and is designated HY-130. In addition to the extremely high yield stress, this steel exhibits very good energy absorption characteristics at low temperatures. The chemical composition of HY-130 quenched and tempered steel is presented in Table I. The mechanical properties of HY-130 in the "as received" condition are presented in Table II.

One test specimen was a low carbon steel with a designation 1020. This steel was chosen in order to provide further data on another material for use in validating and improving the MIT one-dimensional computer program. The nominal chemical composition of this steel and its mechanical properties are listed in Table III and Table IV respectively.

In order to analytically study the heat flow and thermal strains which occur during the welding process, it is necessary to know the physical and mechanical properties of the metal as a function of temperature, from room

TABLE I
COMPOSITION OF HY-130

| Element   | Weight Percent |
|-----------|----------------|
| Ni        | 4.75 - 5.25    |
| Cr        | 0.40 - 0.70    |
| Mn -      | 0.60 - 0.90    |
| Si        | 0.20 - 0.35    |
| Mo        | 0.30 - 0.65    |
| V         | 0.05 - 0.10    |
| C         | 0.08 - 0.12    |
| P         | 0.010 maximum  |
| S         | 0.015 maximum  |
| Ti        | 0.02 maximum   |
| Cu        | 0.25 maximum   |
| <u>Fe</u> | Remainder      |

TABLE II

# MECHANICAL PROPERTIES OF HY-130

| Yield Stress           | 145 ksi                   |
|------------------------|---------------------------|
| Tensile Stress         | 147 ksi                   |
| Elongation in 2 inches | 20%                       |
| Reduction of Area      | 698                       |
| V-Notch Requirements   | 60 ft-lbs at 70°F and 0°F |

TABLE III

COMPOSITION OF 1020 STEEL

| Element | Weight Percent |
|---------|----------------|
| C       | .1823          |
| Mn      | .3060          |
| P       | .04 maximum    |
| S       | .05 maximum    |
| Fe      | Remainder      |

# TABLE IV MECHANICAL PROPERTIES OF 1020

| Yield Stress           | 48 ksi |
|------------------------|--------|
| Tensile Stress         | 65 ksi |
| Elongation in 2 inches | 36%    |
| Reduction of Area      | 59%    |

temperature through melting temperatures. For most metals this information is not readily available and for HY-130 no systematic study has been made to determine these physical and mechanical properties at elevated temperatures. However, in his study of fracture of welds of HY-130, Schrodt [13] developed curves for the physical and mechanical properties of HY-130 as functions of temperature which he derived from data published in References [1,5,9, 12, and 16]. At the present time, these curves are the most valid approximations for the properties at elevated temperatures which are available. The mechanical and physical properties of HY-130 as functions of temperature are presented in Figures 2-7. These physical and mechanical properties for 1020 steel can be found in the literature [4] and are presented as functions of temperature in Figures 8-13.

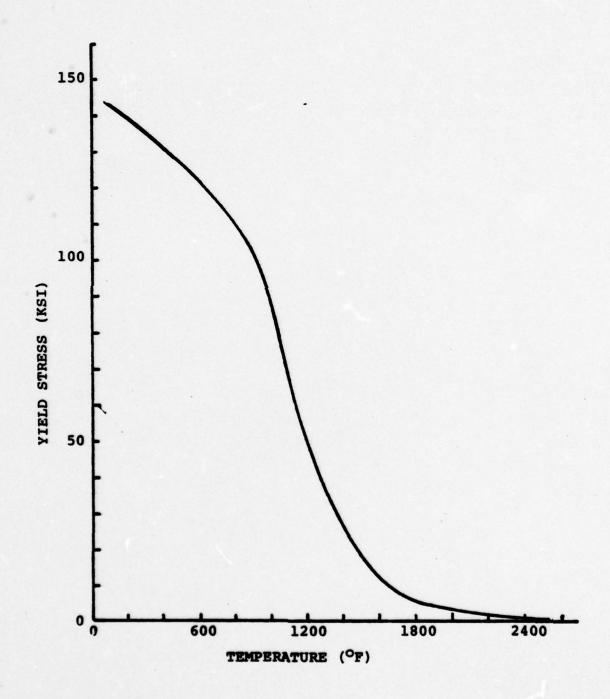


Figure 2 - Estimated Effect of Temperature on 0.2% Offset Yield Stress for HY-130

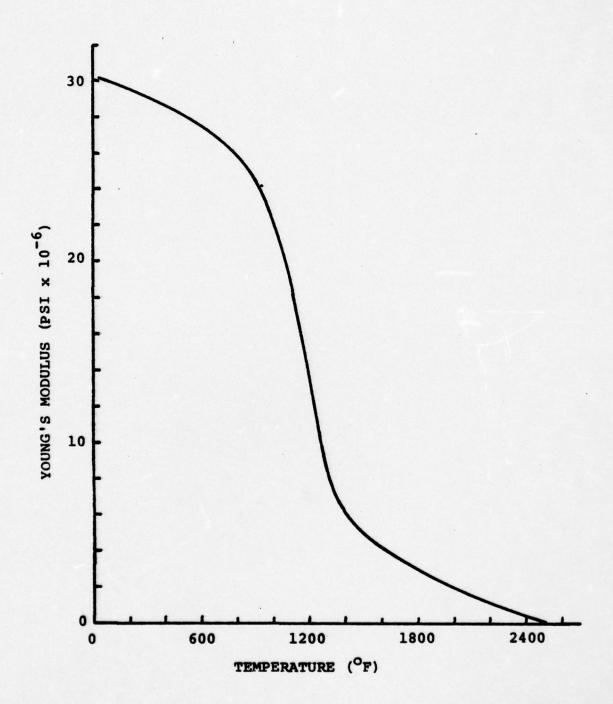


Figure 3 - Estimated Effect of Temperature on Young's Modulus for HY-130

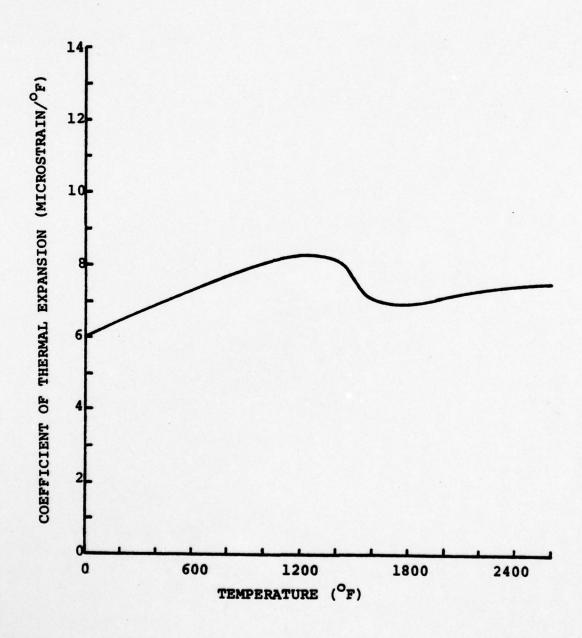
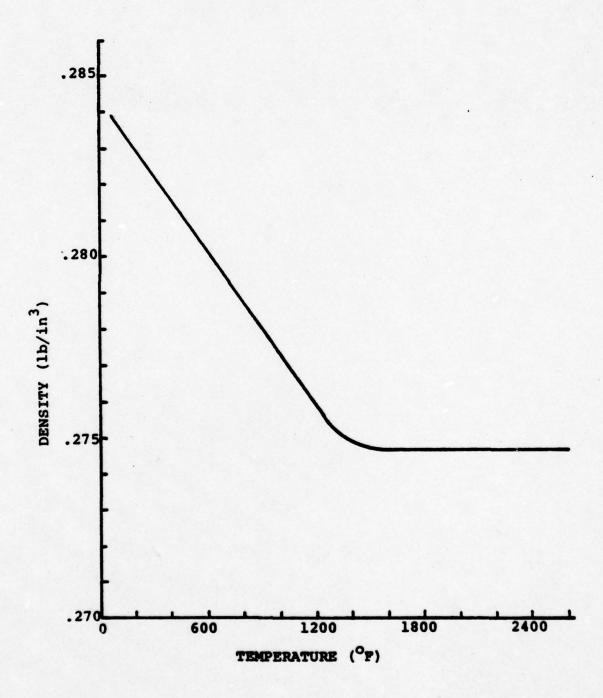


Figure 4 - Estimated Effect of Temperature on the Coefficient of Thermal Expansion for HY-130



Pigure 5 - Estimated Effect of Temperature on Density of HY-130

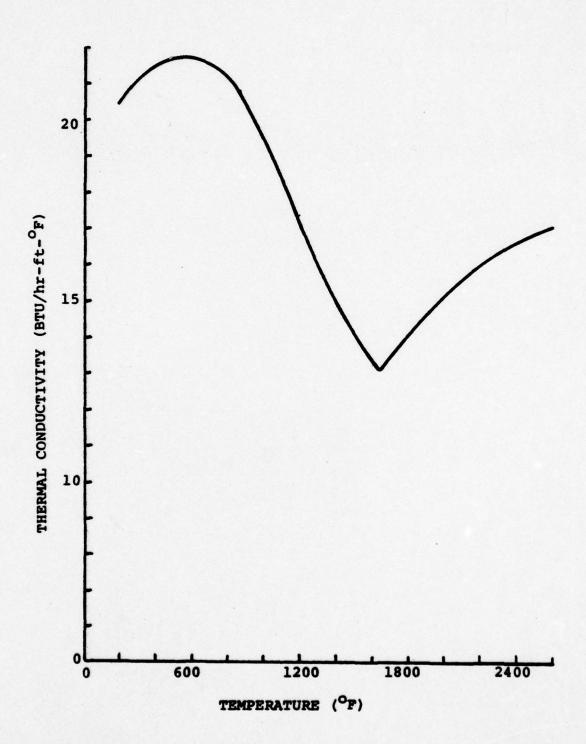


Figure 6 - Estimated Effect of Temperature on the Thermal Conductivity of HY-130



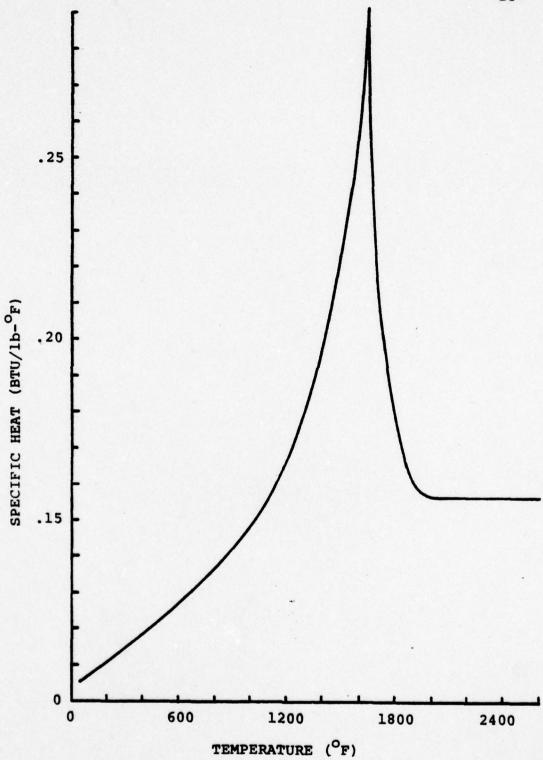


Figure 7 - Estimated Effect of Temperature on Specific Heat of HY-130

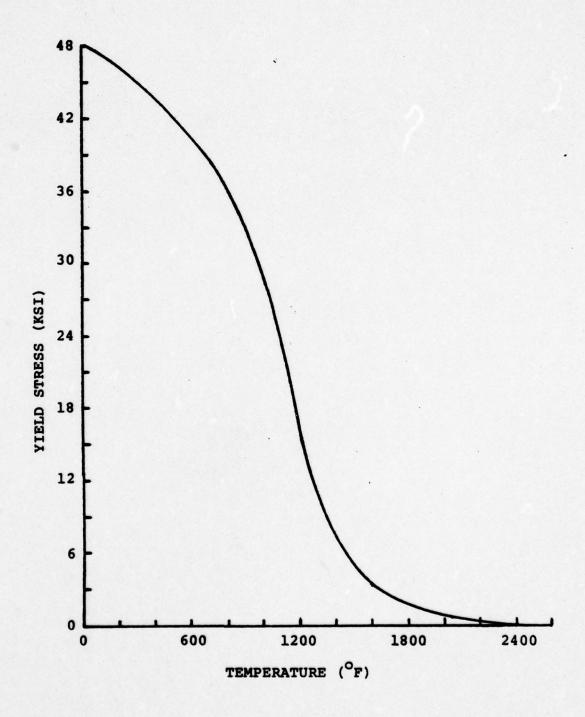


Figure 8 - Estimated Effect of Temperature on 0.2% Offset Yield Stress for 1020 Steel

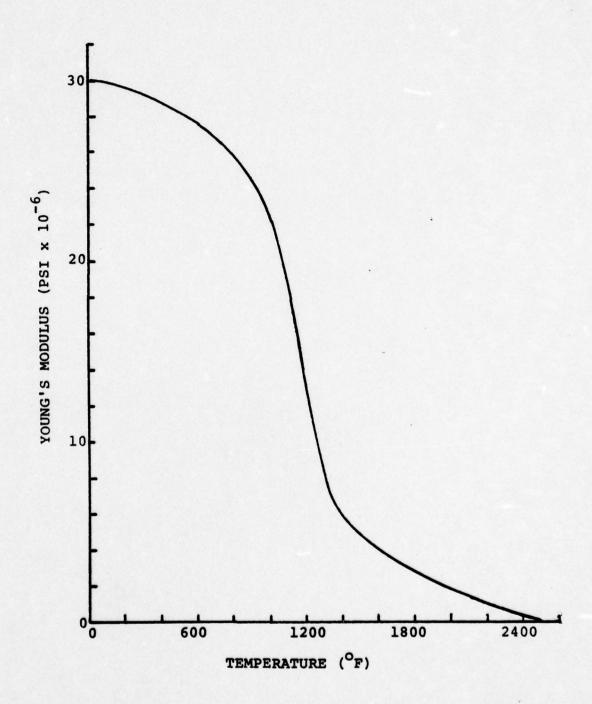


Figure 9 - Estimated Effect of Temperature on Young's Modulus for 1020 Steel

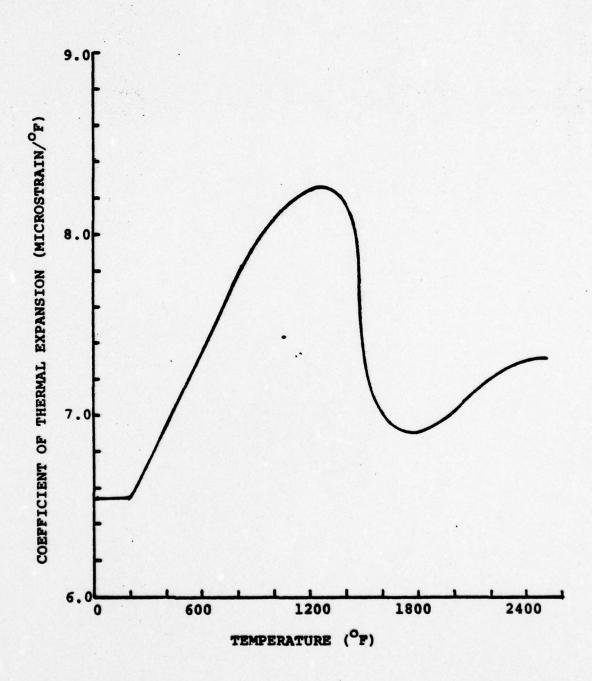


Figure 10 - Estimated Effect of Temperature on the Coefficient of Thermal Expansion for 1020 Steel

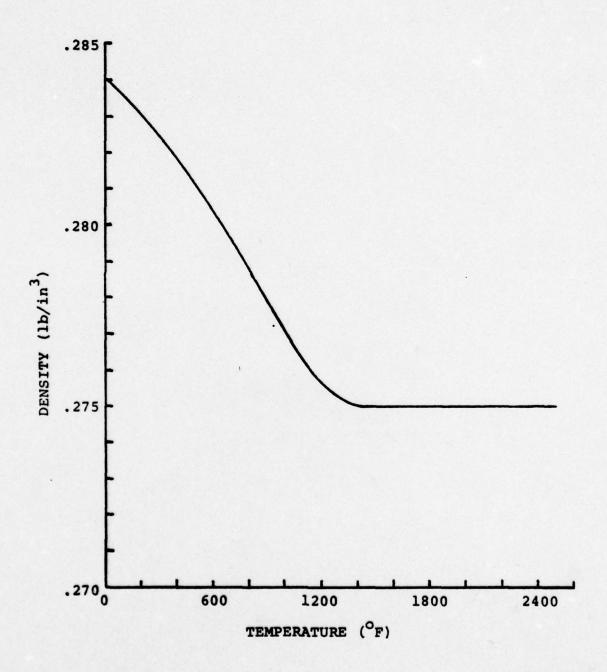


Figure 11 - Estimated Effect of Temperature on Density of 1020 Steel

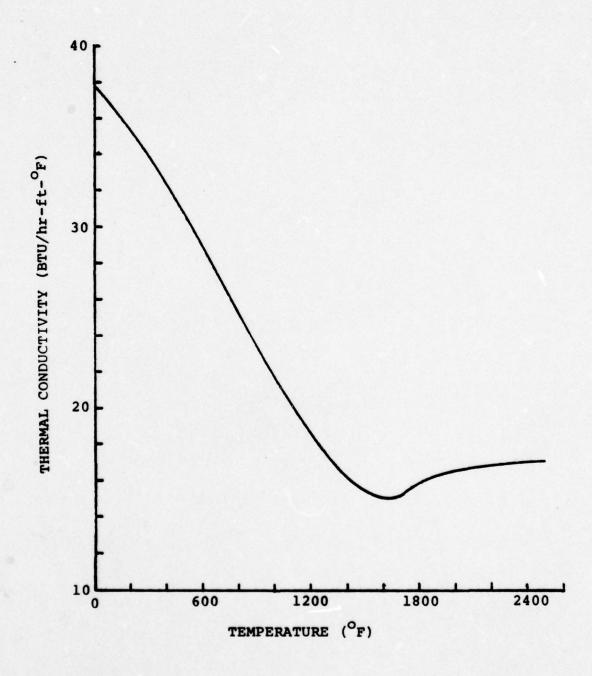


Figure 12 - Estimated Effect of Temperature on the Thermal Conductivity of 1020 Steel

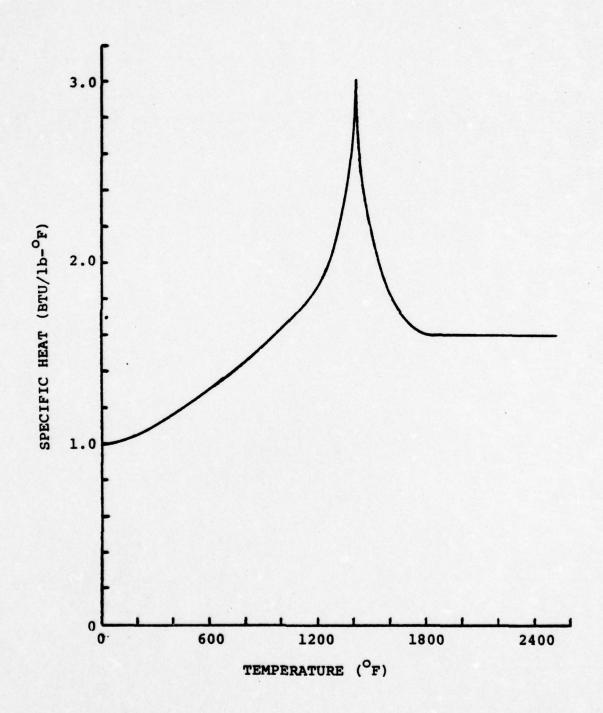


Figure 13 - Estimated Effect of Temperature on Specific Heat of 1020 Steel

#### CHAPTER III

#### **PROCEDURES**

## A. Scope of Research

A series of three experiments was conducted to measure temperature changes and thermal strains which occur in thick plate during multipass welding of unrestrained butt joints. Metal movement, as measured by transverse shrinkage, was measured during one of the experiments.

The two primary experiments were conducted with HY-130 steel, a quenched and tempered steel under development by the U.S. Navy for use in deep diving submersibles. U.S. Navy specifications for the fabrication of this steel by the Gas-Metal-Arc method were followed as closely as possible. The third experiment was conducted with a low carbon steel (by using the Gas-Metal-Arc method of welding). The data obtained experimentally were compared to analytical predictions of temperature and strain produced by the MIT one-dimensional computer program for the analysis of thermal strains during welding.

# B. Measurement of Strain

Strain measurements were made on the surface of the metal plate by use of adhesive bonded, electric resistance

strain gages. This method of strain measurement on the test plate is used extensively and is a convenient and accurate method of measurement. When measuring strain with resistance strain gages, the total resistance change measured,  $\Delta R$ , consists of resistance changes taking place in the test plate due to mechanical strains and thermal strains as well as resistance changes due to thermal strain and thermo-electric changes in the strain gage itself. In the case of welding thermal strains, the total resistance change can therefore be expressed in the following way:

$$\Delta R = \Delta R(e) + \Delta R(p) + \Delta R(T) + \Delta R(g)$$

#### where

- AR(e) = resistance change due to elastic strain
  in the test plate.
- ΔR(p) = resistance change due to plastic strain
  in the test plate.
- ΔR(T) = resistance change due to temperature induced thermal strain in the gage.
- $\Delta R(g)$  = resistance change due to thermoelectric effects in the gage.

In studying welding thermal strains, the measurements of interest are  $\Delta R(e)$  and  $\Delta R(p)$ . These can be separated out from  $\Delta R$  if  $[\Delta R(T) + \Delta R(g)]$  can be determined throughout the temperature range. This correction has been made by the gage manufacturer and is supplied with the gages in the form of a curve of apparent strain versus temperature. Therefore,

$$E\Delta R(e) + E\Delta R(p) = E\Delta R - A.S.$$

where A.S. = apparent strain.

#### C. Apparatus

## 1. Specimen Preparation

All experiments consisted of the unrestrained butt welding of one inch thick plates. Each plate measured approximately 12" x 24" and after welding created a plate with dimensions 24" x 24". In accordance with U.S. Navy specifications, the weld joint configuration chosen was a double-V groove with a 60° included angle. The plates were first flame cut to their 12" x 24" dimensions and then the edges to be welded were machined to the proper configuration. The surfaces of the plates near the weld line were mechanically cleaned in order to remove as much

potential weld contamination as possible. The specimen arrangement and weld joint configuration are shown in Figures 15 and 16 respectively.

## 2. Instrumentation

Strain on the surface of the specimen plates was measured by electric resistance strain gages set at varying transverse distances from the weld line, but at the same longitudinal position. The strain gages consisted of a 90° pair which allowed the simultaneous measurement of longitudinal and transverse strains during welding. The strain gage specifications are contained in Table V and the curve of apparent strain versus temperature for these gages is shown in Figure 14.

Temperature was measured on the surfaces of the specimen plates by use of Chromel/Alumel adhesive bonded thermocouples referenced to 32°F. These thermocouples were positioned at transverse positions from the weld line corresponding to the transverse positions of the strain gages. On the Specimen I HY-130 plate and on the low carbon steel specimen plate, the thermocouples were positioned 0.5 inches ahead of the strain gages. On the Specimen II HY-130 plate, the thermocouples were positioned 1.0 inches ahead of the strain gages. When reducing the

data, the time the welding arc passed the thermocouples was referenced to the time the arc passed the position of the strain gages so that correct corresponding values of temperature and strain were obtained.

Temperature and strain were simultaneously read out on a twelve channel, continuous recording Visicorder.

Thermocouple and strain gage locations are indicated in Figures 18 - 21.

## D. Experiment Procedure

Welding on all tests was performed by the semiautomatic gas-metal-arc method (GMA), using a SVI-300 power
supply and associated controls manufactured by the Linde
Division of Union Carbide Corporation. Arc travel speed,
voltage, and amperage were set prior to the start of
welding on each test specimen in order to obtain the
desired heat input. Pre-heat was applied by oxygenacetylene torches and monitored by the installed thermocouples. Interpass temperature was also monitored by the
installed thermocouples.

The test plates were lined up with the welding head and tack welded together at one end. The welding head was then moved to the starting end of the weld line and preheat was applied to the plates. When the temperature of

#### TABLE V

# STRAIN GAGE PROPERTIES

Gage SR-4 90°
Designation FAET-18D-12-S6

Manufacturer BLH Electronics

Grid Dimensions .19 x .19 inches

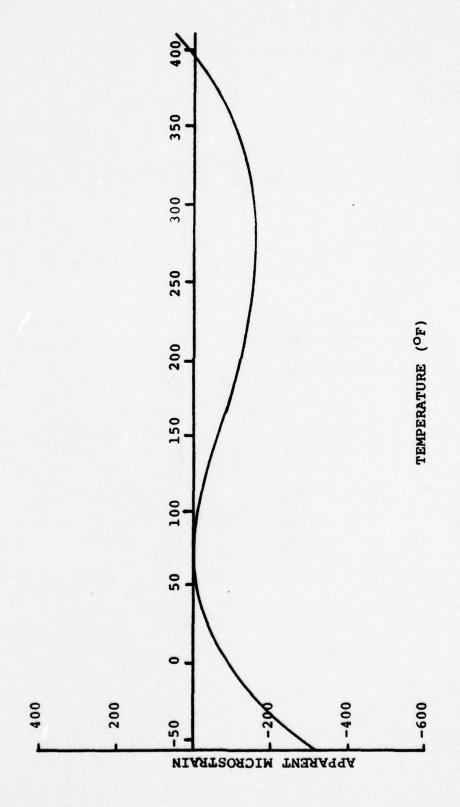
Temperature Range -100 - 500°F

Resistance 120 Ohms

Gage Factor 1.98

Cement EPY-500

Figure 14 - Effect of Temperature on Apparent Strain for SR-4 Strain Gage



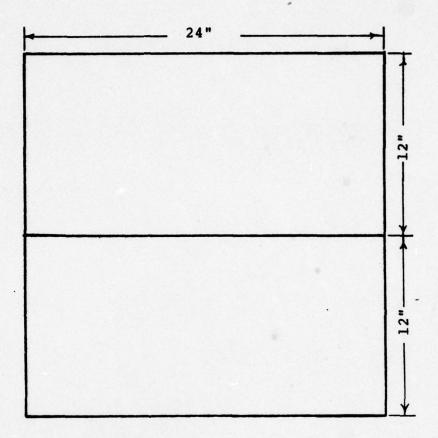


Figure 15 - Test Plate Arrangement

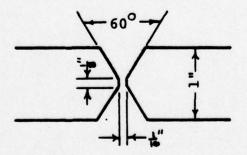
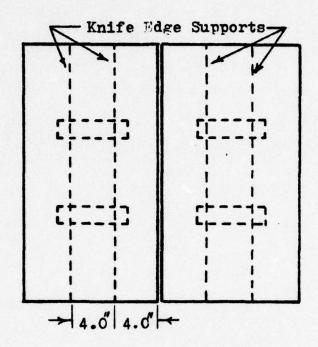


Figure 16 - Weld Joint Configuration



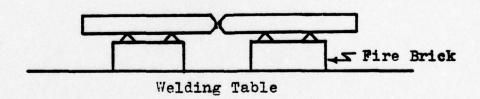


Figure 17 - Test Plate Support Arrangement

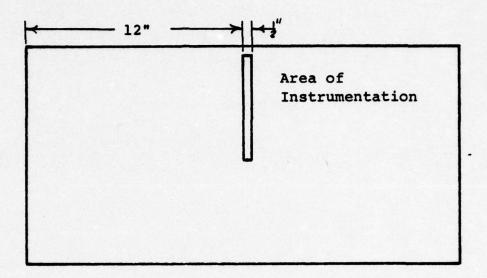


Figure 18 - Location of Instrumentation on HY-130 Specimen I and 1020 Steel

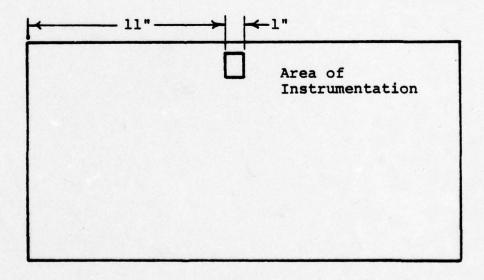


Figure 19 - Location of Instrumentation on HY-130 Specimen II

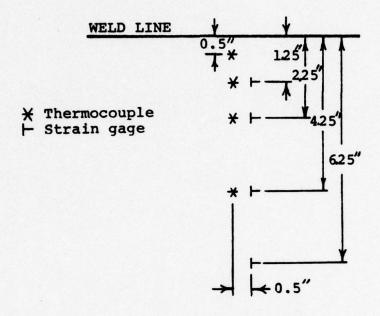


Figure 20 - Thermocouple and Strain Gage Location on HY-130 Specimen I and 1020 Steel

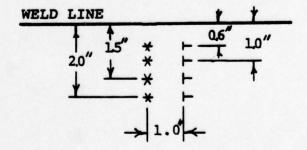


Figure 21 - Thermocouple and Strain Gage Location on HY-130 Specimen II

the test specimen, as measured by the thermocouples, averaged between 150°F and 175°F, the visicorder was actuated and an arc was struck to begin the first pass. When the arc reached the end of the weld line, it was extinguished and the welding head was returned to the starting point. The visicorder continued to record temperatures and strains continuously for approximately one minute and then intermittently until the next pass was to be made. The test specimen air cooled until the desired interpass temperature range of 150°F-175°F was reached as measured by the thermocouple nearest the weld line. At this point the visicorder was actuated, the arc struck, and the process repeated for the next pass. This procedure was repeated for each of the six passes needed to fill the upper half of the double-V groove. After the completion of the sixth pass, the test specimen was allowed to cool to room temperature. Welding conditions are summarized in Table VI.

TABLE VI

| TEST PLATE                    | 1020                    | HY-130<br>SPECIMEN I  | HY-130<br>SPECIMEN II |
|-------------------------------|-------------------------|-----------------------|-----------------------|
| WELD TYPE                     | BUTT                    | BUTT                  | BUTT                  |
| PROCESS                       | GMA                     | GMA                   | GMA                   |
| ARC VOLTS                     | 26                      | 25                    | 25                    |
| POLARITY                      | DCRP                    | DCRP                  | DCRP                  |
| TRAVEL SPEED (rpm)            | 12                      | 12                    | 12                    |
| HEAT INPUT (Kjoules/in)       | 39                      | 37                    | 37                    |
| FILLER WIRE                   | .0625"<br>A-675         | 0.045"<br>Linde-140   | 0.045"<br>Linde-140   |
| SHIELDING GAS                 | AR, 25% CO <sub>2</sub> | AR, 28 0 <sub>2</sub> | AR, 280 <sub>2</sub>  |
| NUMBER OF PASSES              | 9                       | 9                     | 9                     |
| PREHEAT & INTER<br>PASS TEMP. | 150-175°F               | 150-175°F             | 150-175°F             |

WELDING CONDITIONS

#### CHAPTER IV

#### RESULTS

# A. Presentation of Data

The experimental results are presented as measurements of longitudinal strain versus time for the strain results and temperature versus time for the temperature measurements. The time axis refers to the time elapsed from the start of one pass until the start of the next pass. The time scales for each pass have been adjusted and the data is presented so that the arc passes the point of observation at the time of 40 seconds. This point is marked on each graph. This manipulation of time scales is permissable because there is minimal movement in either temperature or strain during the first 20 seconds of each pass. Note the change in scale at 100 seconds to that of a log plot from 100 to 1000 seconds. Temperature is measured in degrees Fahrenheit. Longitudinal strain is presented as units of microstrain, which equals  $10^{-6}$  in/in.

Figures 22 through 31 present the experimental mechanical strain results for HY-130. First, the results for Specimen I are presented with the longitudinal strain measured at 1.25", 2.25", and 4.25" from the weld line presented in a graph for each of the passes 2-6. The strain and temperature movement measured at 6.25" were

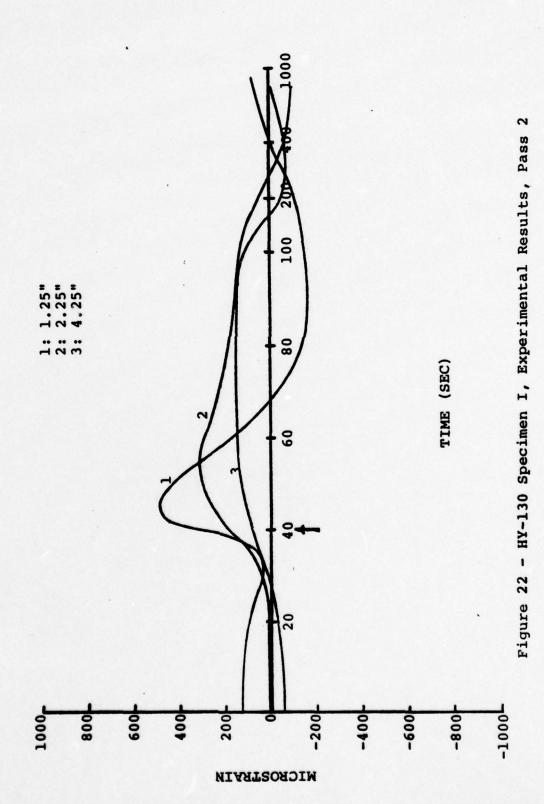
minimal and therefore are not presented. The results for Specimen II are then presented, with the longitudinal strain measured at 1.0", 1.5", and 2.0" from the weld line shown on graphs for passes 2-6. The longitudinal strain measurements at 0.6" from the weld line on Specimen II are shown in Figure 32. These were separated from the other HY-130 results because of the uniqueness of the curves. The results shown are for passes 2, 3, and 5. Pass 4 is very similar to pass 3 and the results for pass 6 are unreliable because the temperature of the strain gage greatly exceeded the maximum allowable temperature of the gage for a significant amount of time.

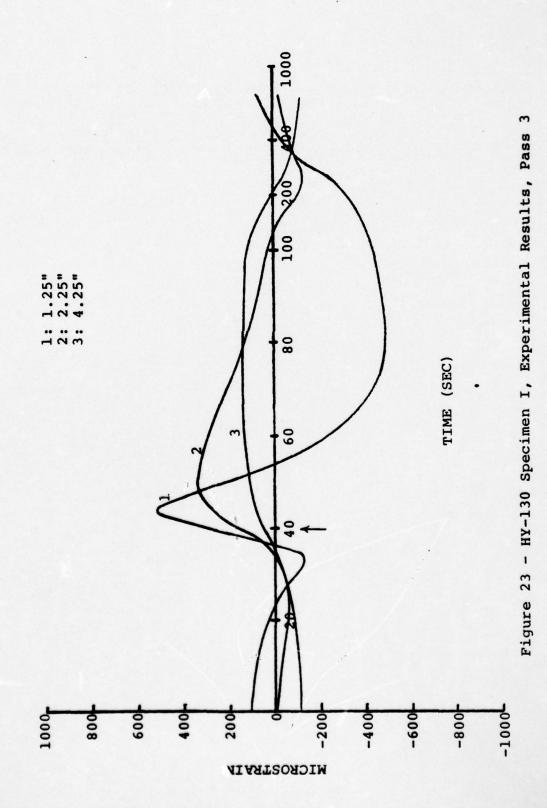
Figures 33 through 37 present the experimental mechanical strain results for 1020 steel. The longitudinal strain measured at 1.25", 2.25", and 4.25" from the weld line are presented together for each pass, 2-6. The strain measured at 6.25" from the weld line was insignificant and therefore not presented.

Figures 38 through 46 show comparisons between experimental results and predictions by the one-dimensional computer program for both temperature and longitudinal strain. The results shown are for pass 3 and are entirely representative of the comparisons for the other passes.

The results for HY-130, both measured and predicted at

1.0", 1.25", 2.0", 2.25", and 4.25" from the weld line, are presented as well as the results for 1020 steel at 1.25", 2.25", and 4.25" from the weld line.





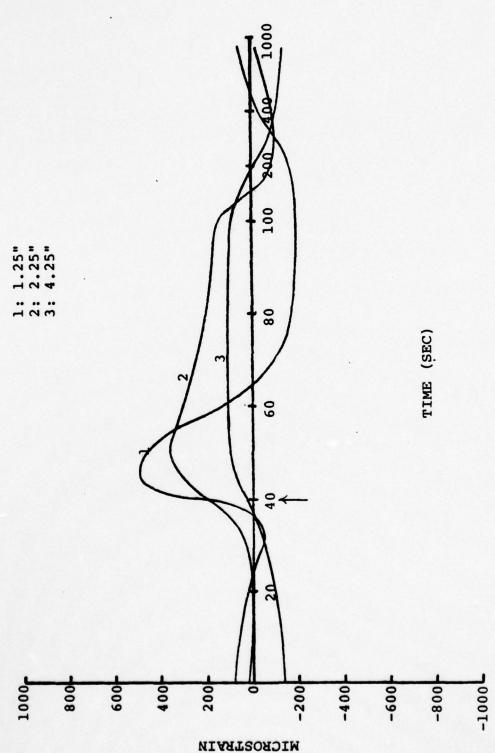
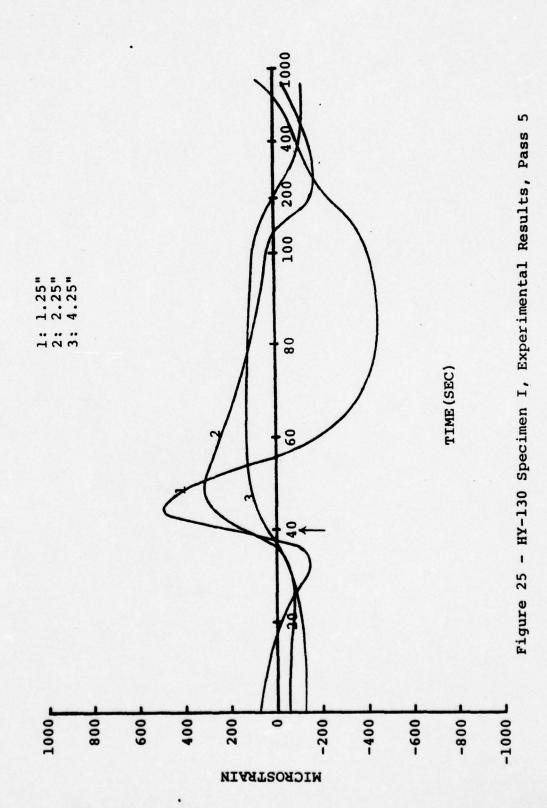
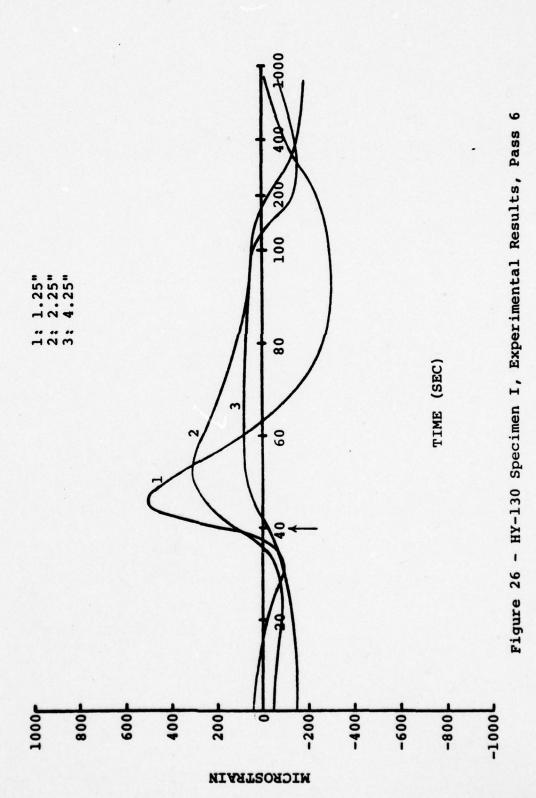


Figure 24 - HY-130 Specimen I, Experimental Results, Pass 4





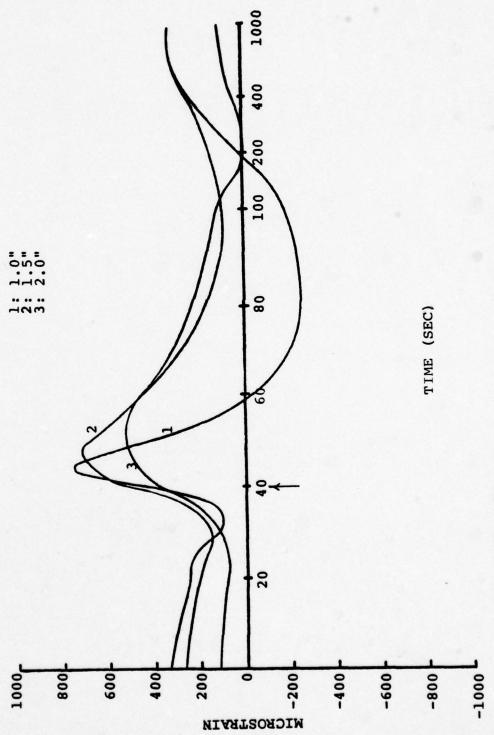


Figure 27 - HY-130 Specimen II, Experimental Results, Pass 2

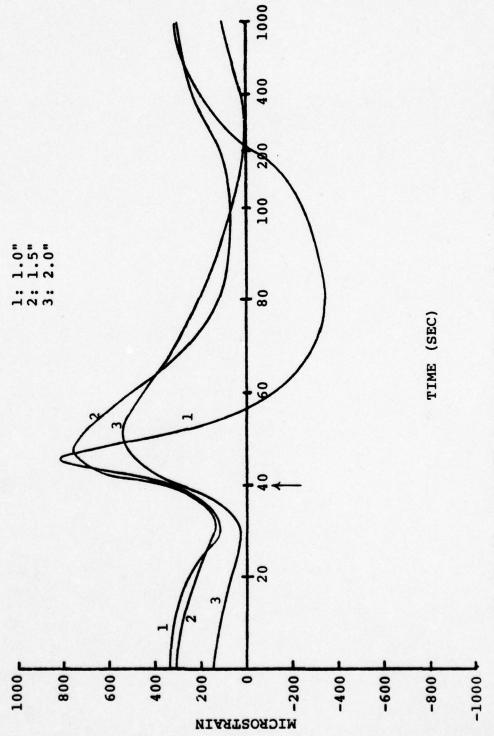
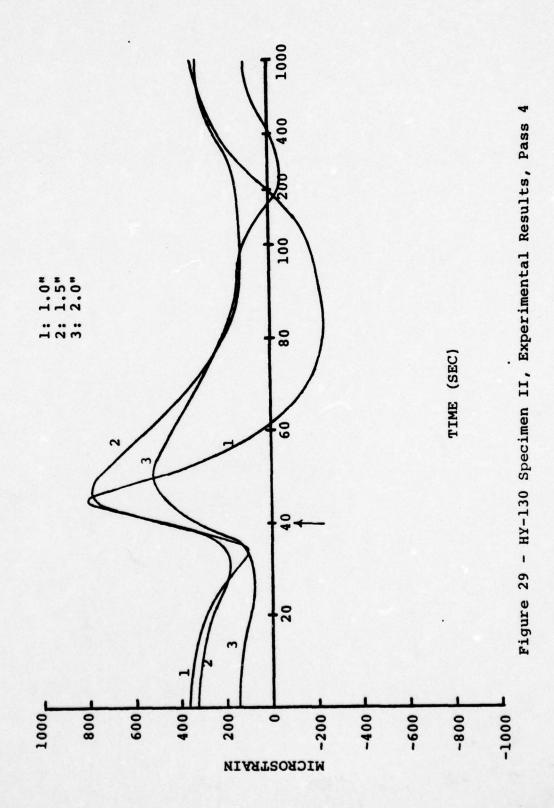
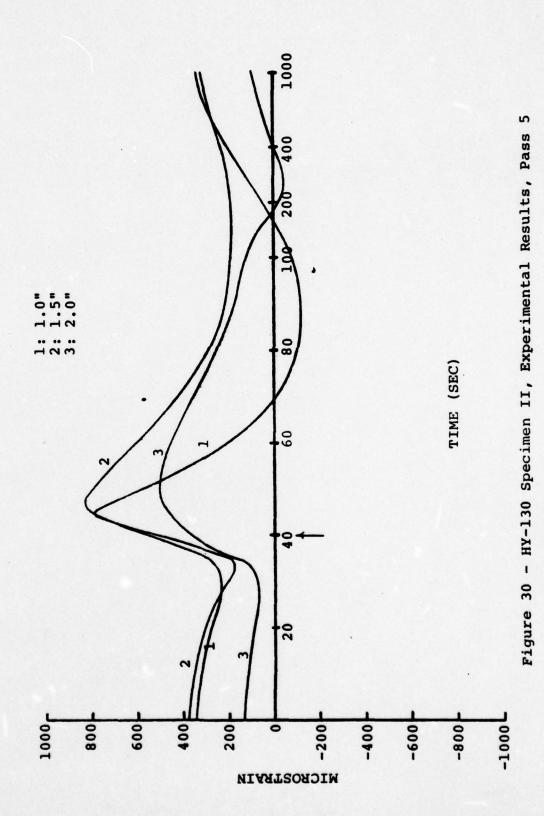
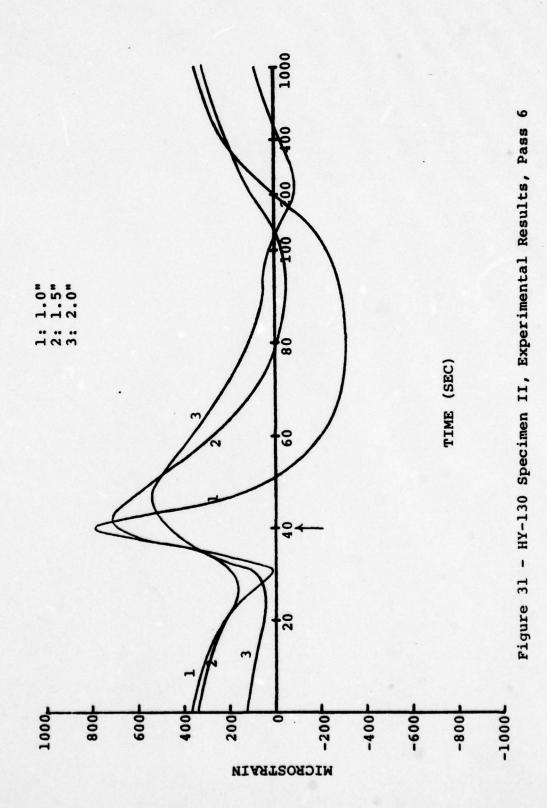
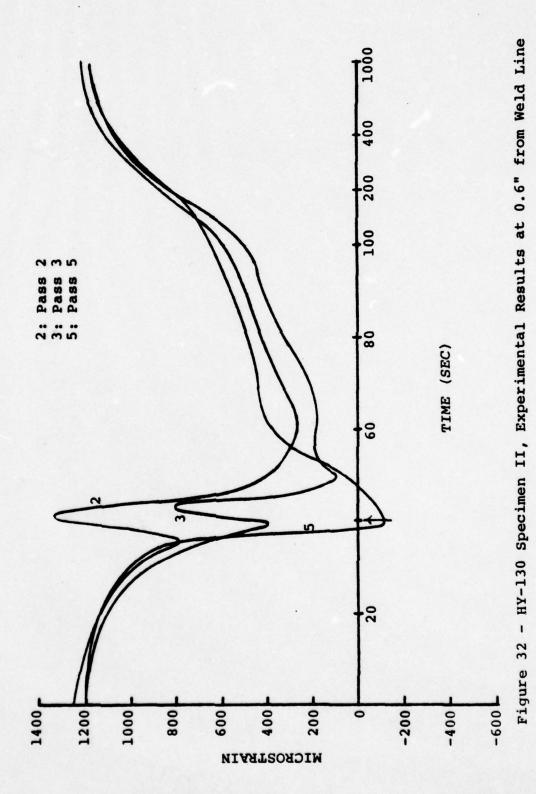


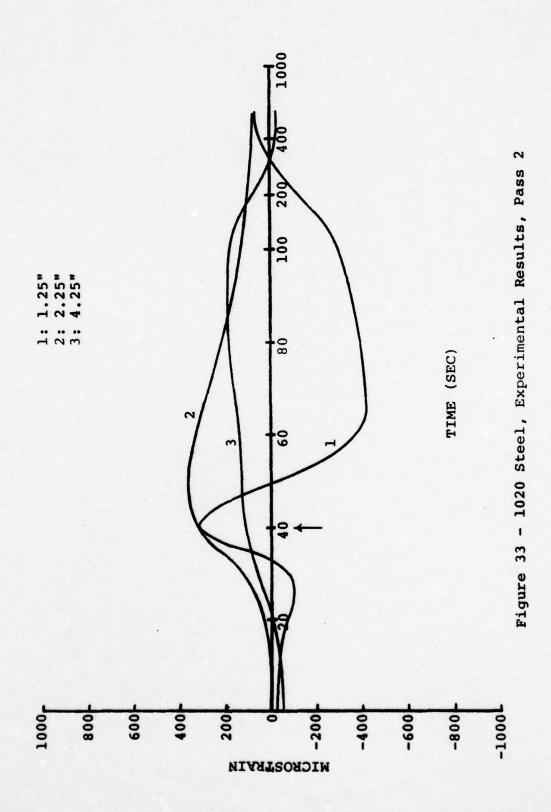
Figure 28 - HY-130 Specimen II, Experimental Results, Pass 3

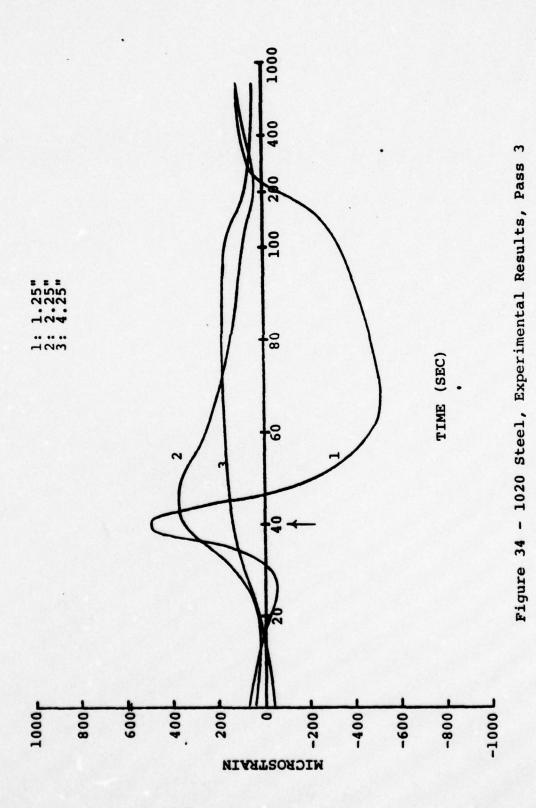


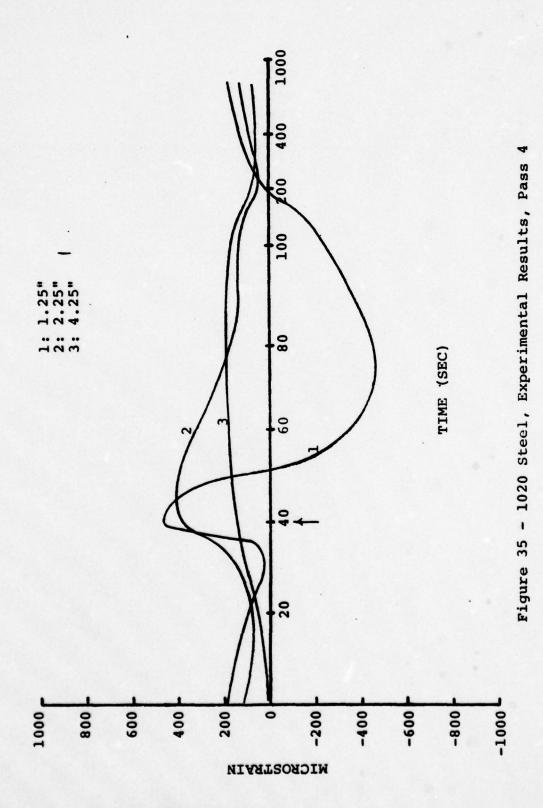












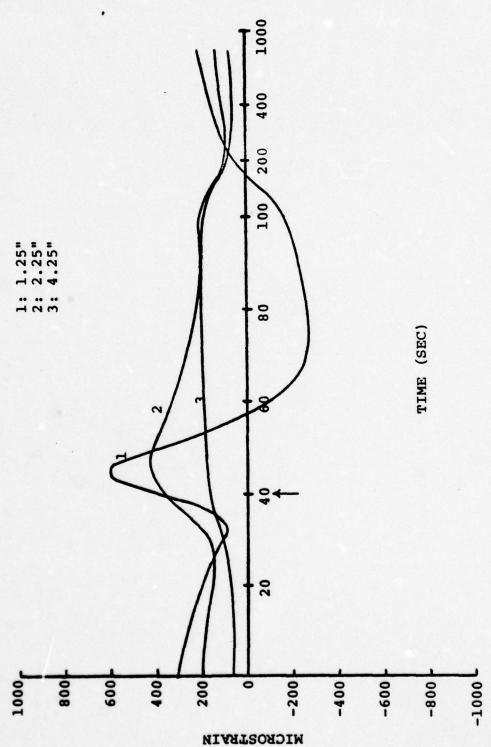
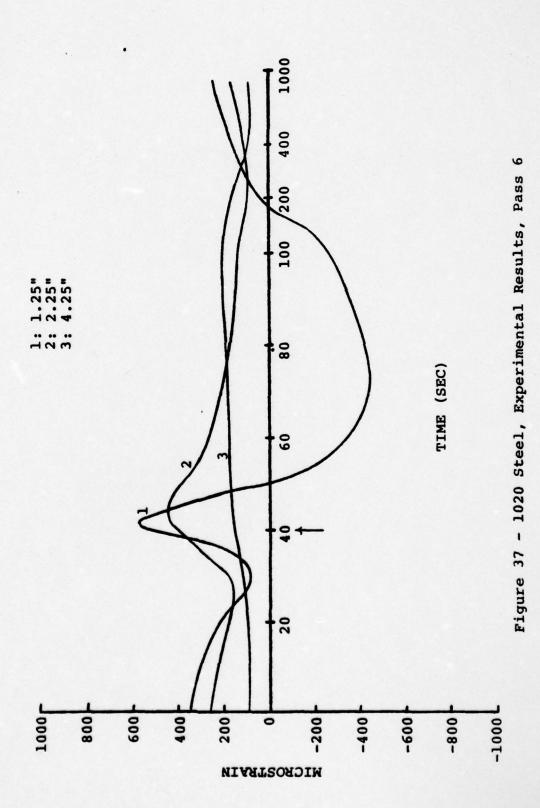


Figure 36 - 1020 Steel, Experimental Results, Pass 5



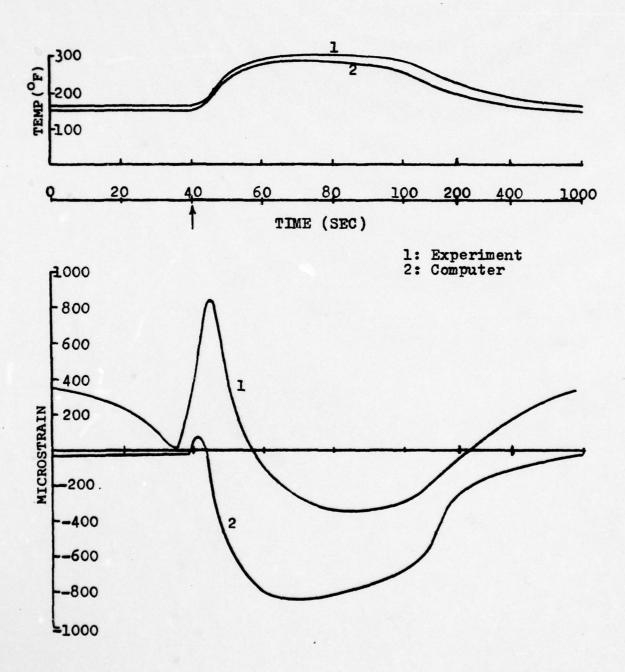
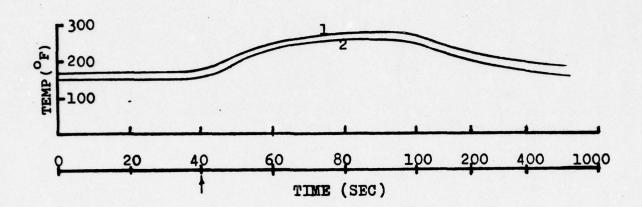


Figure 38 - HY-130 Specimen II, 1.0", Temperature and Strain Analytical Comparison, Pass 3



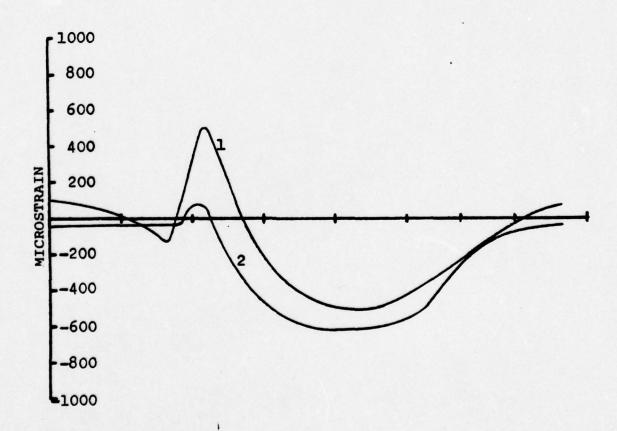


Figure 39 - HY-130 Specimen I, 1.25", Temperature and Strain Analytical Comparison, Pass 3

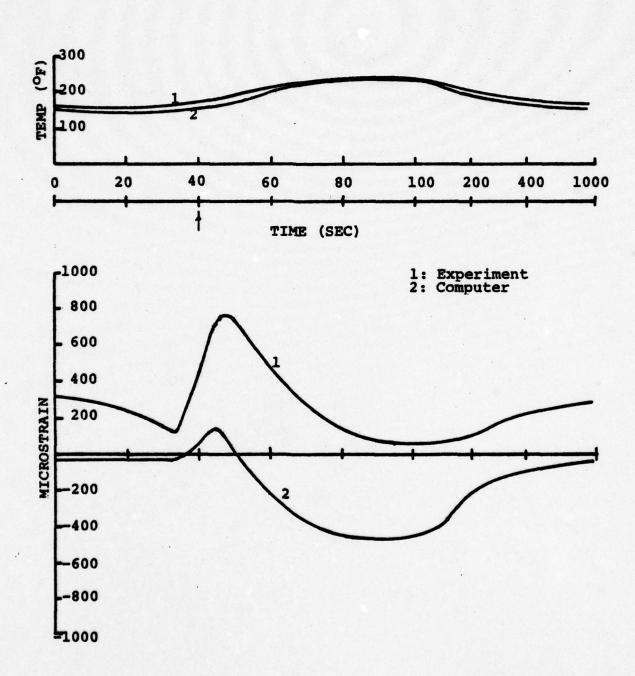
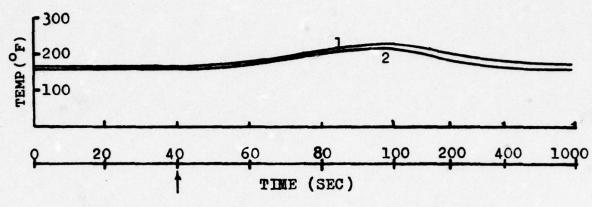


Figure 40 - HY-130 Specimen II, 1.5", Temperature and Strain Analytical Comparison, Pass 3



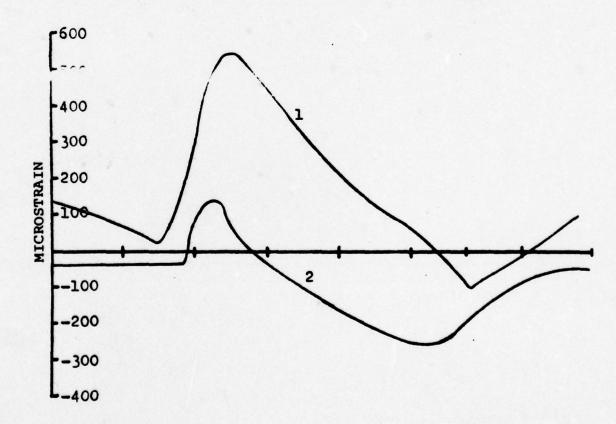


Figure 41 - HY-130 Specimen II, 2.0", Temperature and Strain Analytical Comparison, Pass 3

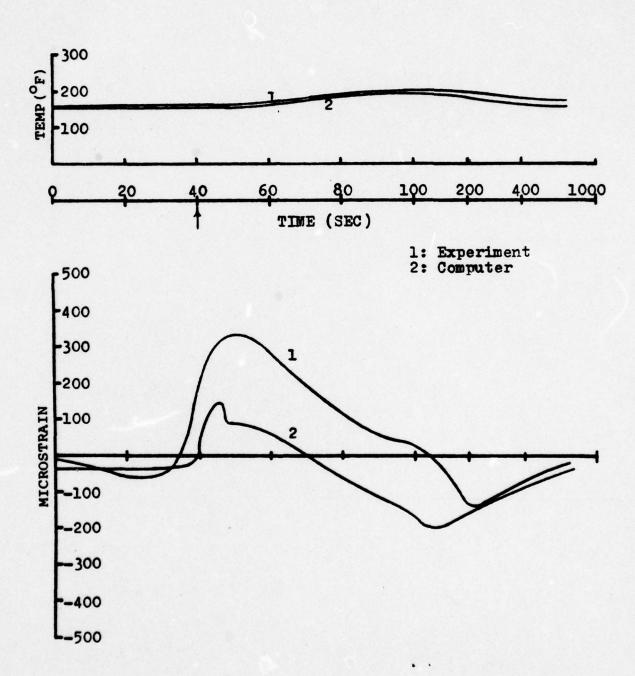
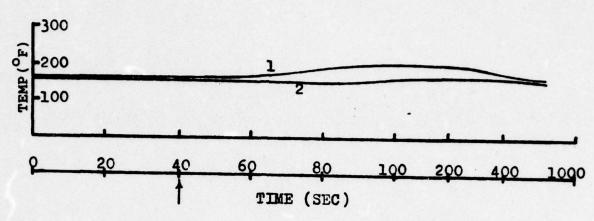


Figure 42 - HY-130 Specimen I, 2.25", Temperature and Strain Analytical Comparison, Pass 3



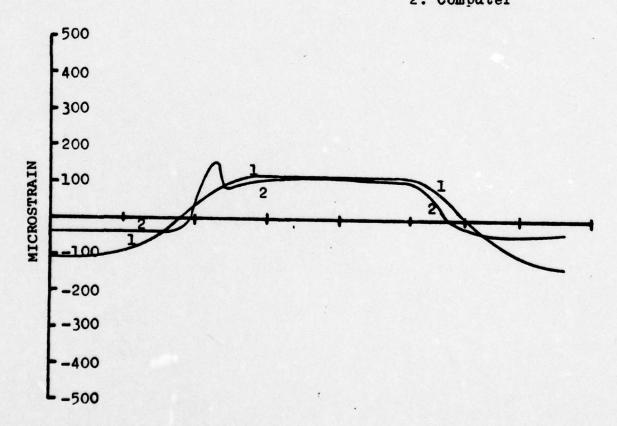
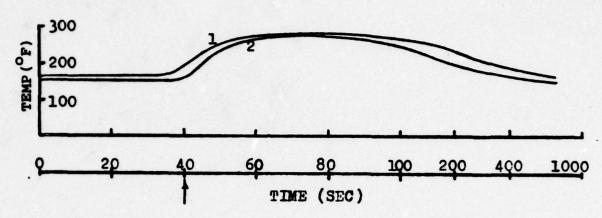


Figure 43 - HY-130 Specimen I, 4.25", Temperature and Strain Analytical Comparison, Pass 3



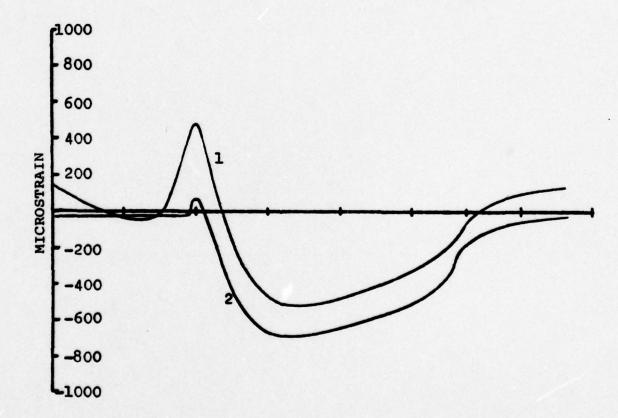
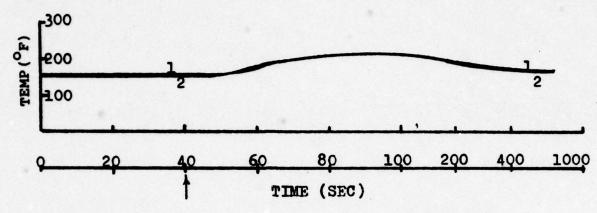


Figure 44 - 1020 Steel, 1.25", Temperature and Strain Analytical Comparison, Pass 3



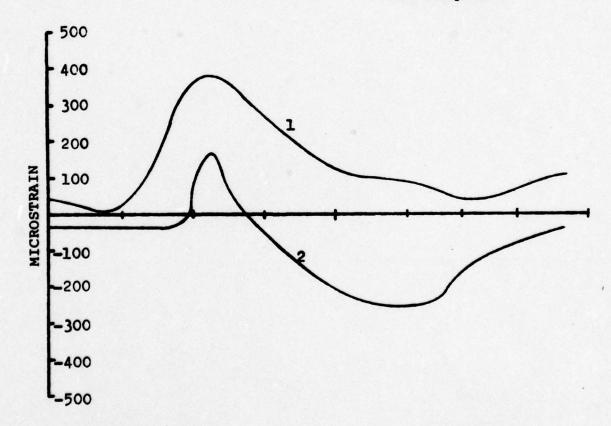
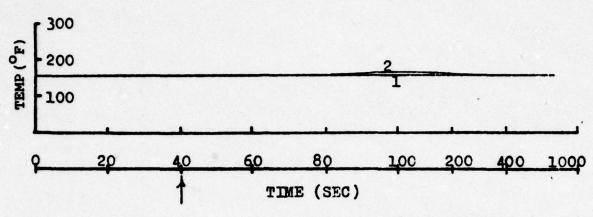


Figure 45 - 1020 Steel, 2.25", Temperature and Strain Analytical Comparison, Pass 3



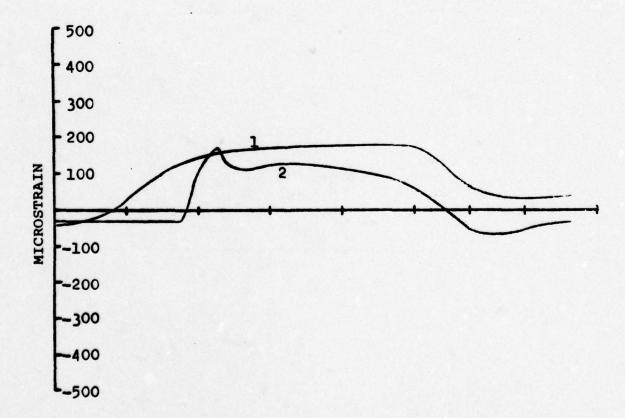


Figure 46 - 1020 Steel, 4.25", Temperature and Strain Analytical Comparison, Pass 3

### CHAPTER V

### DISCUSSION OF RESULTS

### A. HY-130

In reviewing the results for HY-130, Specimen I shows almost identical results for each pass except for pass 2. After welding pass 1 on Specimen I, longitudinal cracks appeared along the fusion line between the bead and the base metal. They did not extend the entire length of the weld, but did exist in the vicinity of the instrumentation. This is the likely reason that the curves for pass 2 have not quite reached the characteristic shapes shown for passes 3-6. No cracks in the weld appeared following any passes except pass 1 on Specimen I. On Specimen I, where the measured strain at 1.25" from the weld line for passes 2 and 4 does not reach compressive strains as large as for passes 3, 5, and 6, it is felt that this is due to the slight movement of the arc from the prescribed weld line in order to fill the groove. As the arc was further from the points of measurement for passes 2 and 4 than for the other passes, the maximum temperature and strains reached were lower.

During the welding of Specimen II, no cracking occurred after any of the passes and the curves for strain measured at 1.0", 1.5", and 2.0" from the weld line exhibited a

characteristic shape immediately with pass 2, as shown in Figures 27 through 31. Great care was taken to fill the groove with minimal movement of the arc away from the center of the weld line. It is thought that this contributed to the relatively small variation in maximum tensile and compressive strains from one pass to the next.

Very interesting results occurred at 0.6" from the weld line on Specimen II, as shown in Figure 32. This location was the closest point of measurement to the arc and the first notable observation is that the strains which exist between passes reach very high levels of tensile strain. These strain levels are approximately four times the interpass strain levels measured at 1.0" from the weld line. The second notable aspect of the curves is the rapidity in which the strain changes from a smoothly decreasing tensile strain to a high tensile peak and then returns to a smoothly decreasing tensile strain for passes 2, 3, and 4 (not shown). This entire change takes place in less than half the time and covers a much larger total strain change than that measured at any other transverse position. Following these strain movements, pass 5 shows no tensile peak at all but rather the strain starts at a high tensile strain level, reaches a minimum, and returns to a high tensile strain level. As stated in the previous

section, data for pass 6 is unreliable due to the temperatures greatly exceeding the maximum allowable for the strain gage.

This behavior at 0.6" from the weld line resembles that reported by Klein [2] in his study on 3/4" thick HY-130 plate. He reported two tensile peaks at points 1.0" or closer to the weld line. The differences between these results and those of Klein are most likely caused by the fact that his specimens were highly restrained whereas the specimens in this study were unrestrained. Klein [2] attributes this behavior to the possibility that precipitates form in the fusion zone and weld metal upon solidification which will cause high tensile strains in the metal near the weld line. Stoop and Metzbower [16] recently reported that the microstructure in the heat affected zone of GMA weldments of HY-130 consisted of coarse grained Bainite close to the fusion zone and autotempered Martensite plus ferrite further away from the fusion zone. Outside the heat affected zone, the base metal remained tempered Martensite. More will be said on this later.

## B. 1020 Steel

The results for 1020 steel closely resemble those for

HY-130 in terms of general shape of the curves of strain versus time. During welding of the first pass, there were areas of incomplete fusion and porosity. The second pass resulted in a complete, high quality bead. It is thought that the results shown for pass 2 reflect the low quality weld bead on the first pass and the results for the following passes show the characteristic strain behavior of a good weld in 1020 steel. The results measured at 6.25" from the weld line showed very little strain movement and are deleted from the figures.

### C. Analytical Comparison

Figures 38 through 46 compare experimental results for temperature and longitudinal strain with one-dimensional computer program predictions for temperature and longitudinal strain. The results for pass 3 were arbitrarily chosen as they are entirely typical of the comparisons for the other passes.

Immediately apparent upon looking at the figures is that the temperature comparisons are very good whereas the strain comparisons are not very good in most cases. In calculating the temperature, the computer program treats the temperature distribution around the moving arc as a two-dimensional heat conduction problem. It appears that

this approach is adequate to describe the temperature distribution in the plates. Of interest in the results is that the arc efficiency used for calculating the temperature distribution was the same for both HY-130 and 1020 steel. This supports the contention that arc efficiency is only a function of the welding equipment used and not a function of the material being welded.

In analyzing strains, the one-dimensional program assumes that the longitudinal strain is only a function of the transverse distance from the weld line and the transverse strain as well as the shear strain are assumed to be zero. In fact, the transverse strains measured were not zero and for distances from the weld line of up to approximately one inch, the transverse strains were of the same order of magnitude as the longitudinal strains. At transverse distances of approximately two inches, transverse strains are greatly reduced, but still significant. Only at greater transverse distances do they become relatively insignificant. It is thought that the presence of these transverse strains accounts for the poor comparisons between the experimental results and the one-dimensional program predictions because the assumptions used in calculating the longitudinal strains are not valid in these one inch thick plates. However, it can be seen that the

results for 4.25" in both the HY-130 and 1020 steels agree more closely than for points closer to the weld line.

This appears to be due to the absence of any significant transverse strains this far from the weld line.

To summarize the computer results, treating the temperature distribution as a two-dimensional heat conduction problem is shown to be an adequate method to use in thick plates. However, in calculating longitudinal strains, the one-dimensional program is only accurate when there are insignificant transverse strains.

#### CHAPTER VI

### CONCLUSIONS AND RECOMMENDATIONS

In summary, the results of these experiments indicate that the following conclusions can be made.

- (1) The use of electric resistance strain gages is an inexpensive, accurate, and convenient method of measuring transient thermal strains which occur during welding.
- (2) The strain system which exists close to the weld line in HY-130 is extremely complex and not well understood. The strain results of this study at 0.6" from the weld line of an unrestrained butt weld tend to support the existence of the secondary tensile peaks in restrained butt welds as reported by Klein [7]. This behavior is not evident at distances greater than 1.0 inch from the weld line.
- (3) The MIT computer program for the one-dimensional analysis of thermal stresses and metal movement during welding, which treats the temperature distribution surrounding the arc as a two-dimensional heat flow problem, accurately predicts the temperature distribution in one inch thick HY-130 and low carbon steel plates.
- (4) The existence of large transverse strains invalidates the assumptions made by the one-dimensional computer

program in calculating the longitudinal strains close to the weld line in thick plates. Therefore, the usefulness of the one-dimensional program for predicting longitudinal strains in thick plates is very limited.

changes occurring in the base metal near the weld as the arc goes by is validated by the results of this study. Figure 47 shows the longitudinal strain field for HY-130 at times thirty seconds before the passage of the arc, during the passage of the arc, and ten minutes after the passage of the arc for pass 3. These curves show that just before the passage of the arc, strains are small with compressive strains near the weld becoming tensile far away. At the moment of passage, most of the plate is in tension with metal near the weld line in compression. Then, ten minutes after the passage of the arc, high tensile strains exist near the weld, changing to compressive strains at points further than approximately two inches.

The results of this study create the desire to continue the work on these specimen plates. Recommendations for further study include the following.

(1) Compare the results with the predictions of a two-dimensional analysis of thermal stresses and metal movement.

- (2) Conduct a residual stress analysis of the weld-ment.
- (3) Conduct a metallurgical characterization study of the weldment to complement the study by Stoop and Metzbower [14].

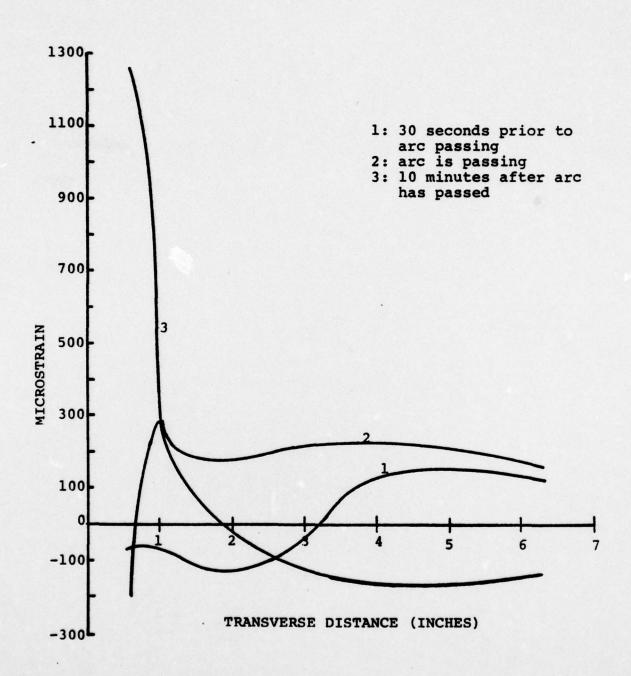


Figure 47 - Longitudinal Strain Field in HY-130, Pass 3

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# APPENDIX

Analytical Predictions for HY-130 steel are presented.

TRANSFERSE DISTAACE POOL CENTER LINE IA INCHES

|                                                                         |                           |                                      | •                                           |                                             |                                          |                                            |                                                |                                                               |                                      |                                       |                                             |  |
|-------------------------------------------------------------------------|---------------------------|--------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------------|--|
|                                                                         | 3.5                       | 9.000                                | 0.996                                       | 1.244                                       | 1.500                                    | 2.004                                      | 2.250                                          |                                                               | 7.200                                | 9.400                                 | 17.039                                      |  |
| MEAT SOUNCE AT                                                          | 1- 12.00                  | 2                                    |                                             |                                             |                                          |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| 113K* 0.0                                                               | 1840                      | TRAOFAE WAT                          | BULTI-PASS EFFECT                           | LPFECT                                      | 1 PASS                                   |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| TERPERATURE<br>RECH. SIMIL<br>PLASTIC STRAIN<br>TOTAL SYMIN<br>STRESS   | 33330                     | 154.00                               | 156.00<br>6.0<br>0.95<br>0.95               | 150.Cc<br>-0.000<br>0.0<br>0.05<br>-0.954   | 50.00                                    | 30.00                                      | 56.00<br>0.00<br>0.45<br>0.45                  |                                                               | 153.10<br>-6.003<br>-6.003<br>-6.954 | 30000                                 | 150.00                                      |  |
| TIRE. 1.03                                                              | DARI                      | INN ENTONNI                          | NULTI-PASS                                  | EFFECT                                      | 1 PASS                                   |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| TERPERATURE<br>SFCH. SIPALN<br>FOTAL SERAIN<br>STREES                   | 36.00                     | 155.06<br>-2.066<br>-3.454           | 36.56<br>6.154<br>6.154                     | 156.00                                      | 25.00                                    | 156.03                                     | 250.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 | 150.69                                                        | 150.00<br>-0.903<br>-0.304<br>-0.305 | 50.00                                 | 15C.CC<br>-0.045<br>9.C<br>-0.454<br>-0.693 |  |
| TIME- 2.33                                                              | 3,81                      | INVOLVE KULTI-PASS LEPPET            | TI-PASS                                     | LEPPET                                      | 1 FASS                                   |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| TEAPENATULE<br>NECTIC STRAIN<br>TOTAL STRAIN<br>STRESS                  | 32.50                     |                                      | 350<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 | 50.00<br>-0.000<br>-0.000<br>-0.000         | 54.50<br>0.35<br>0.45                    | 150,00                                     | 150.33<br>6.003<br>0.03<br>0.030               | 150.03                                                        | 150.03<br>-9.009<br>0.454<br>-0.339  | 55.30<br>6.30<br>6.30<br>6.30<br>6.30 | 20.000                                      |  |
| TIME J.03                                                               | 1940                      | INN EATONS!                          | NULTI-PASS                                  | EPPECT                                      | I PASS                                   |                                            |                                                |                                                               |                                      | •                                     |                                             |  |
| TERRYSALUPE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STREIS | 25.00<br>0.00<br>0.95     | 156.00                               | 150.30                                      | 150.00<br>-0.000<br>0.000<br>-0.000         | 50.00                                    | 154.05                                     | 6.000                                          | 56.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 | 55.35<br>-6.36<br>-6.45<br>-6.66     | 30000                                 | 25.00<br>0.954<br>0.954                     |  |
| TIME 00                                                                 | 0,11                      | THAOTAE HOT                          | MULII-FASS EPFECI                           | EPFECI                                      | 1 PASS                                   |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| TECHESATURE<br>RECH. SIRALS<br>PLASTIC SIRALS<br>TOTAL STRAIN<br>STRESS | 150.06<br>-0.046<br>0.954 | 150.00<br>-0.003<br>-0.454           | 15.30<br>6.00<br>6.00<br>8.00<br>8.00       | 150.06<br>-0.000<br>0.95<br>-0.000          | 5.000                                    | 155.00                                     | 50.00                                          | 150.03                                                        | 150.00<br>-0.333<br>-0.354<br>-0.354 | 50.00                                 | 15<br>-0.000<br>-0.000<br>-0.55<br>-0.75    |  |
| TIRE- 5.00                                                              | DART                      | INAOLVE RUL                          | KULTI-PASS                                  | RPFECT                                      | 1 PASS                                   |                                            |                                                |                                                               |                                      |                                       |                                             |  |
| TEMPERATURE<br>FLCH. STRATU<br>PLASTIC STRATU<br>TOTAL SERALA<br>STRESS | 5.5.3.5.<br>5.5.3.5.      | 150.50<br>-0.303<br>-0.454<br>-0.454 | 35.55                                       | \$50.33<br>-C.CO3<br>-0.0<br>-0.95<br>-0.95 | 3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3. | 150.00<br>20.00<br>20.00<br>20.00<br>20.00 | 50.05                                          | 150.30<br>-(.903<br>-(.934<br>-(.934                          | 150.55                               | 150.53                                | -6.76.<br>-6.76.<br>-6.953                  |  |

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| 44-11-4455 | 151.30<br>0.330<br>0.354<br>0.354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                            | INVOLVE RULTI-PASS EFFECT | 156.85                                                                 | 11-64SS               | 52.78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | INADLUE AULTI-PASS EFFECT | 6.93                     |
| INVIEW GUL | 50.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00 |            | 20000                                                               | SSV4-ILION BATCATI | 50.55<br>50.55<br>50.55<br>50.55                                       | 141 141                   | 50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00<br>50.00 | 101 JAT                   | 2.000                                                                  | SEAS-ITIME SULLI-PASS | -1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LVE AUL                   | 217.50                   |
| 1840       | 150.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ZATOARI    | 22,559                                                              | 241                | 206.54<br>-0.349<br>6.0<br>6.757<br>-11.511                            | 0.87                      | 796.05<br>-5.115<br>-0.924<br>0.966<br>-137.654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1840                      | 2536.06<br>-17.654<br>-17.654<br>6.971                                 | 3                     | 17.614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CAST                      | -17.566                  |
| 6.03       | TEXPEDATURE<br>ARCH. STRAIN<br>PLASTIG-STRAIN<br>101AL STRAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.50       | TENTLARINE<br>MECH. STAIN<br>PLASTIC STAIN<br>TOTAL STAIN<br>STRESS | 6.5                | TUBE<br>FEALX<br>STAALS<br>FEALS                                       | 9.63                      | TPAP SPATURE<br>BECH. STRAIN<br>PLASTIC STRAIN<br>TOCAL SCRAIA<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.03                     |                                                                        | 11.30                 | TEMPLATURE SHOULD STATE | 17.00                     |                          |
| T138.      | 173219<br>1864. S<br>1071. S<br>17153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -3811      | TENFLER TURE<br>MECH. STAIL<br>PLASFIC STA<br>TOTAL STAIL<br>STRESS | -2811              | TENPERATURE<br>MECH. STRAIN<br>PLASIC STRAIN<br>TOTAL STRAIN<br>STREES | -3811                     | TPACES S<br>BECK. S<br>PLASTIC<br>TOCAL S<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TIME.                     | terpertupe<br>acci, strais<br>plastic serals<br>Total serals<br>stress | -3612                 | TERPLAN<br>RPC3 : S<br>PLASTIC<br>TOTAL S<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TIAL.                     | TEAPSEATERS RECH. STRALL |

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|                   | 150.00<br>-2.068<br>-2.017                                              |                           | 153.30<br>-0.76<br>3.0<br>-2.60#                                       |                           | 153.30<br>-6.10<br>0.450<br>-3.685           |                           | 156.00                                                                  |                          | 150.00                                                                  |                           | 150.00<br>-3.136<br>0.0<br>5.818<br>-4.636                          |                           | 15c.cc<br>-0.143<br>0.6<br>0.811<br>-4.253                              |
|-------------------|-------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|---------------------------|----------------------------------------------|---------------------------|-------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|
|                   | 150.00                                                                  |                           | 150.30<br>-C.63C<br>0.924<br>-0.924                                    |                           | 150.03                                       |                           | 156.00                                                                  |                          |                                                                         |                           | 150.03                                                              |                           | 156.63<br>-3.047<br>0.0<br>0.96<br>-1.434                               |
|                   | 150.60                                                                  |                           | 153.33<br>0.023<br>0.942<br>0.447                                      |                           | 150.00<br>C.334<br>0.034<br>1.009            |                           | 156.60<br>0.018<br>0.09<br>0.992<br>1.141                               |                          | 150.00<br>0.042<br>0.0<br>0.398                                         |                           | 0.345<br>0.999<br>1.151                                             |                           | 150.00                                                                  |
|                   | 159.00                                                                  |                           | 15<br>6. 103<br>1. 754<br>2. 972                                       |                           | 152.00                                       |                           | 150.03                                                                  |                          | 150.00                                                                  |                           | 150.00                                                              |                           | 150.00                                                                  |
|                   | 156.03                                                                  |                           | 20.00                                                                  |                           | 155.01                                       |                           | 150.03<br>0.194<br>0.0<br>1.152<br>5.469                                |                          | 150.35                                                                  |                           | 1.186                                                               |                           | 150.16<br>0.244<br>7.159                                                |
|                   | 3.11%<br>0.0<br>1.073                                                   |                           | 153.01                                                                 |                           | 50.04                                        |                           | 150.13                                                                  |                          | 150.24                                                                  |                           | 153.41                                                              |                           | 151.60                                                                  |
| 1 PASS            | 150.37                                                                  | I PASS                    | 151.42                                                                 | 1 PASS                    | 152.27<br>0.142<br>6.0<br>1.151<br>5.410     | 1 PASS                    | 151.77<br>0.197<br>1.176<br>5.853                                       | 1 PASS                   | 155.77<br>0.20<br>1.147<br>6.063                                        | 1 PASS                    | 156.22                                                              | 1 PASS                    | 101.37<br>0.199<br>0.0<br>1.229<br>5.931                                |
| BFFECT            | 152.93                                                                  | EFFECT                    | 155.58<br>0.134<br>0.0<br>1.126<br>3.996                               | EFFECE                    | 159.32                                       | EFFECT                    | 164.05<br>0.0<br>1.184<br>1.498                                         | EFFECT                   | 169.52<br>0.118<br>0.0<br>1.266<br>3.515                                | EFFECT                    | 175.46<br>C.095<br>6.0<br>1.224<br>2.823                            | EFFEC1                    | 181.62<br>0.068<br>1.219<br>2.002                                       |
| MULTI-FASS BFFECT | 1.031                                                                   | INVOLVE MULTI-PASS BFFECT | 13.55<br>0.617<br>3.5<br>1.132<br>0.512                                | INVOLVE KULTI-PASS EPPECT | -2.327<br>-2.327<br>-0.725                   | INVOLVE MULTI-PASS EFFECT | 196.31<br>-0.082<br>-0.0<br>1.192                                       | HAVLER AULTI-PASS EPPECT | -0.146                                                                  | INVOLVE KILTI-PASS EPPECT | 216.56<br>-0.198<br>(.0<br>1.233<br>-5.459                          | LAVOLVE KULTI-PASS EPPECT | 228.13                                                                  |
|                   | 216.24<br>-0.765<br>-0.0<br>-1.659                                      | 14E 80E                   | -6.96.<br>-2.142                                                       | LVE BUL                   | 12011                                        | TAE NOT                   | 150.15                                                                  | TAF ROL                  | -1.256<br>-1.256<br>-1.229                                              | VE KILL                   | 1.240                                                               | TAE KAT                   | 372.64<br>-1.306<br>0.0<br>1.265<br>-17.785                             |
| 1840146           | 2560.30<br>-17.515<br>-17.515<br>-17.515                                | 241                       | 2500. JU<br>-17. 469<br>-17. 469<br>-17. 469                           | INAC                      | 2506.66                                      | 1440                      | 17.430                                                                  | INA                      | 177.175                                                                 | INACI                     | 2534.03<br>- 17.454<br>- 17.454<br>- 1.271                          | 15401                     | 2500.66<br>-17.336<br>-17.336<br>1.249                                  |
| 13.39             | TEMPERATURE<br>BECH. STATIN<br>PLASTIC STATIN<br>TOTAL STRAIN<br>STATES | 16.00                     | TEMPLATURE<br>MECH. SIRALN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STREES | 15.60                     |                                              | 16.63                     | TEMPERATURE<br>MECH. SIMALN<br>PLASTIC SEMALN<br>TOTAL STARLN<br>STRESS | 17.00                    |                                                                         | 14.00                     | .1.                                                                 | 19.30                     |                                                                         |
| TIME.             | MECH. S<br>PLASTIC<br>TOTAL<br>STRESS                                   | -7811                     | TEAPLES STRESS                                                         | TIME-                     | FERVEREGES STRAIN PLASTIC STRAIN TOTAL SEALM | Tlag.                     | TEAPENATURE<br>RECH. SIFAI<br>PLASTIC ASS<br>TOTAL STARI                | *INE                     | TEMPLA 194E<br>RECH. STRAIN<br>PLANTIC STRAIN<br>TOTAL STRAIN<br>STRESS | TIME.                     | TEMPCHAFURE<br>MECH. STWAL<br>PLASSIC STW<br>TCFAL SYRAIN<br>STRESS | *18E*                     | TEMPERATUFE<br>RECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS |
|                   |                                                                         |                           |                                                                        |                           |                                              |                           |                                                                         |                          |                                                                         |                           |                                                                     |                           |                                                                         |

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|            | 350.00<br>-0.167<br>-0.167<br>-4.133                       |                                  | 159.CC<br>3.C<br>11.71<br>1.671                                                               | 150.03<br>0.127<br>0.06<br>1.066                                                                          | 153.00                                                                                | 156.66<br>0.123<br>7.6<br>1.677<br>1.659                                            | 55.00<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|            | 350.03<br>-6.649<br>-3.975<br>-1.462                       |                                  | 156. C                                                                                        | 150.33<br>0.0127<br>1.066<br>1.773                                                                        | 150.00                                                                                | 156.66<br>0.123<br>0.0<br>1.677<br>3.659                                            | 150.00<br>1.075<br>1.075<br>1.075<br>1.075<br>1.075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | 150.00<br>9.051<br>0.0<br>1.004<br>1.506                   |                                  | 150.60<br>0.3<br>1.671                                                                        | 150.00                                                                                                    | 550.00<br>0.123<br>0.0<br>1.377                                                       | 156.00                                                                              | 55.30<br>6.112<br>8.130<br>6.130<br>6.131<br>6.131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|            | 150.35<br>6.173<br>1.127<br>5.157                          |                                  | 155.49 150.33 15f.00 15c<br>0.000 0.117 0.117 0<br>0.00 0.0 0.1 0.17 0<br>1.071 1.071 1.671 1 | 156.22                                                                                                    | 150.10<br>0.121<br>0.0<br>1.071<br>1.651                                              | 150.15<br>0.0<br>1.07<br>1.07                                                       | 55.00<br>5.00<br>5.00<br>5.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00                                                                                                                                                                                                                                                                                                                                                     |
|            | 150.26                                                     |                                  | 155.49<br>0.00<br>1.071<br>2.372                                                              | 5.0.0                                                                                                     | 174.55<br>-0.045<br>0.0<br>1.077                                                      | -2.654                                                                              | 1000 1000 1000 1000 1000 1000 1000 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | 151.47                                                     |                                  | 22055                                                                                         | 176.056<br>0.056<br>1.065                                                                                 | -0.138<br>-0.138<br>-1.077                                                            | 195.22<br>-3.193<br>0.0<br>1.377<br>-5.618                                          | 201.22<br>-0.22<br>-0.122<br>-0.23<br>-0.24<br>-0.24<br>-1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1 FASS     | 5.25                                                       | 1 PASS                           | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                                       | 216.14<br>-C.148<br>-10.266                                                                               | 1 PASS<br>227.16<br>-5.416<br>6.00<br>1.377                                           |                                                                                     | 12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.00.00<br>12.                                                                                                                                                                                                                                                                                                                                                   |
| EFFECT     | 1.252                                                      | LAVOLVE AULTI-PASS ZPPECT 1 PASS | 330-5                                                                                         | 4 00                                                                                                      | 251.44<br>-0.594<br>0.00<br>-17.473                                                   |                                                                                     | 10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00 |
| KULTI-PASS | *******                                                    | 11-1155                          |                                                                                               | 18 VOLVE ANITI-PASS RFFECT 13 335 38 244 443 -1.209 -0.817 -0.554 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 |                                                                                       | 270.50<br>-0.727<br>-0.727<br>-21.341                                               | 126 - 202.76 264.36 246.29 126 - 0.02 - 0.057 127 128 - 0.02 - 0.057 138 - 1.075 1401VE HULL-PASS EFFECT 15 276.77 254.40 241.62 2547 - 0.754 - 0.051 2547 - 0.754 - 0.051 2547 - 0.754 - 0.051 2547 - 0.754 - 0.051 2547 - 0.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 2.754 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 - 0.051 2547 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | 27.5.                                                      | 14E 8#L                          | 160.24 274.39<br>-1.406 -0.793<br>3.0 0.3<br>1.073 1.073                                      | 315.37<br>-1.239<br>-1.643<br>-15.151                                                                     | 14 VOLVL HHLEI-PASS 12 314.24 277.72 267 -1.054 -0.703 504 0.07 1.077 1.077 1.077     | 297.02<br>-0.926<br>0.0<br>1.077<br>-27.072                                         | 77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00<br>77.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| INAOLVE    | 2530.30<br>-17.324<br>-17.324<br>-1.303                    | 1840                             | 1917.01                                                                                       | 12.527                                                                                                    | 712.62<br>-4.267<br>-8.567<br>1.077                                                   | 24 C                                             | 333.68 282.76 262.36 2-11.26 00.00 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 20.03      | TESPSEATURE<br>RECE. STAIN<br>PLASTIC STAIN<br>TOTAL SCRIN |                                  |                                                                                               |                                                                                                           | TEMPERATURE BELL STRAIN FOLLS STRAIN STRAIN STRAIN STRAIN STRAIN STRAIN STRAIN STRAIN | . : .                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TIME.      | # # # # # # # # # # # # # # # # # # #                      | 11af-                            | TEMPERATURE MECH. STRAIM PLASIC STRAIM FOTAL STRAIM STRESS                                    | TIRE 40.33 TERPEATURE BECH. SFRIB PLASTIC SIRALI STRIS                                                    | TIME SELEN S PLASICE S PLASICE S STREES                                               | TIRE 60.0<br>TERPERATURE<br>TERPERATURE<br>PLASSIC STRAIN<br>TOTAL STRAIN<br>STRASS | THE TATURE<br>BECH. STRAIN<br>TOTAL STRAIN<br>STRES<br>THE WO. OU<br>TEXT. SATURE<br>HECH. STRAIN<br>THE STRAIN<br>TOTAL STRAIN<br>TOTAL STRAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|            |                                                            |                                  |                                                                                               |                                                                                                           |                                                                                       |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

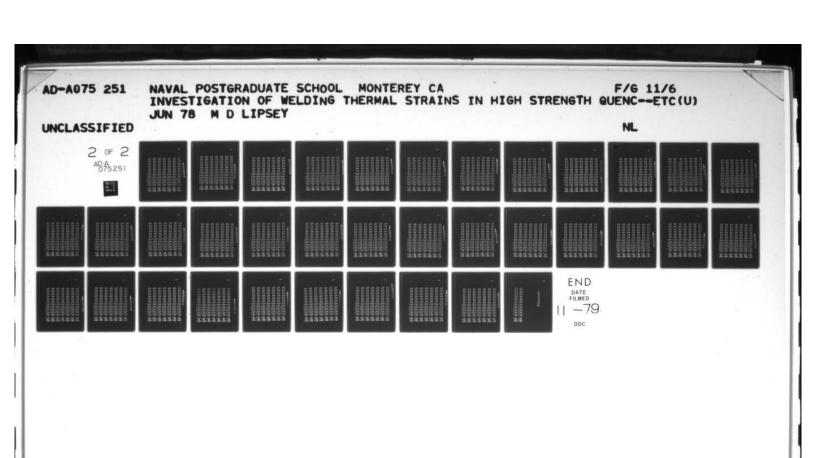
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| FIRE- 30.99                                                             | 18 40                                                 | INVOLVE MULTI-PASS EPPECT                                                                                                                      | 11-PA 55                                    | EFFECT                                     | 1 8455                               |                                              |                                            |                                        |                                            |                                         |                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|--------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------------------------|
| TENFEDATORE<br>FERN. STALIN<br>PLASTIC STRAIN<br>STREES                 | 14.26<br>-4.954<br>-4.954<br>-1.016                   | 260.53 247.26<br>-0.664 -0.568<br>0.0 0.0<br>1.076 1.077                                                                                       | 247.26<br>-2.56<br>-2.56<br>-1.57<br>-1.717 | 1.070                                      | 25.37                                | 292.61<br>-5.25<br>-1.158                    | 152.24                                     | 151.01                                 | 150.00                                     | 156.00                                  | 1.00.00                                     |
| TIM- 130.33                                                             | . 1870                                                | INVOLVE RULTI-PASS EFFECT                                                                                                                      | .11-PASS                                    | EFFECT                                     | 1 PASS                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TERPENTIAL<br>RECH. SINAL<br>PLASSIC STRAIN<br>TURAL STRAIN<br>STRESS   | 10.55                                                 | 165.00 251.66 444.72 231.92<br>-0.133 -C.633 -0.524 -0.461<br>-0.305 0.0 0.0 0.0<br>1.606 1.606 1.606 1.606<br>134.517 -17.741 -15.433 -13.583 | 25.72<br>-0.52<br>1.066<br>-15.63           | 21.92<br>-0.461<br>0.0<br>1.666            | -0.3%2                               | 202.49<br>-0.251<br>-1.356<br>-7.411         | 193.17<br>-0.16<br>1.06<br>-5.43           | 154.39                                 | 150.01                                     | 155.55                                  | 150.00<br>0.0<br>1.066<br>1.354             |
| 11RE- 150.CG                                                            | 7847                                                  | INVOLVE BULTI-FASS APPECT                                                                                                                      | TI-FASS                                     | PPECT.                                     | 1 6155                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TEAPTRATURE<br>RECH. JELAES<br>PLASTIC STALE<br>107AL STALE<br>STRESS   | 153.65                                                | 153.05 220.39 215.33 211.19<br>10.374 -0.396 -0.300 -0.331<br>-4.805 0.0 0.0 0.0<br>1.364 1.048 1.048 1.348<br>145.175 -11.695 -10.640 -9.374  | 215.13                                      |                                            | 206.43                               | 195.47                                       | 150<br>C.0<br>15.24<br>15.46               | 154.73<br>0.0<br>0.0<br>1.048<br>1.035 | 55.12<br>6.0<br>1.348<br>2.756             | 153.03                                  | 153.30<br>C. 095<br>O. C<br>1.044<br>2. 620 |
| FIRE- 200.33                                                            | 0.57                                                  | INVOLVE BULTI-FASS EPFECT                                                                                                                      | .T1-f455                                    | EFFECT                                     | I PASS                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TENDESATUAN<br>BECH. STRAIN<br>PLASSIC STRAIN<br>TOTAL STRAIN<br>STRESS | 150.28<br>0.076<br>-4.805<br>1.132<br>145.284         | 231.29<br>-0.277<br>0.3<br>1.652<br>-6.203                                                                                                     | 198.56<br>-0.258<br>0.0<br>1.032<br>-7.636  | 196.23                                     | 193.54                               | 167.36<br>-0.179<br>0.0<br>1.032<br>-5.317   | 184.03<br>-0.156<br>0.0<br>1.632<br>-4.631 | 161.01<br>0.033<br>1.332<br>3.098      | 150.45<br>0.375<br>6.0<br>1.032<br>2.236   | 156.01                                  | 156.00<br>0.074<br>9.0<br>1.032<br>2.323    |
| TIME . 450.33                                                           | 1840                                                  | INVOLVE MULTI-PASS LFFECT                                                                                                                      | TI-PASS                                     | FFECT                                      | 1 PASS                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TERENATURE<br>NECH. SCHAIN<br>PLASIC SPRIM<br>TOTAL SPRAIN<br>STRESS    | 154.29<br>6.064<br>-4.805<br>1.314                    |                                                                                                                                                | 16.91<br>-6.190<br>-5.643                   | 185.49<br>-0.180<br>0.0<br>1.018<br>-5.347 | 183.42                               | 10.0                                         | 177.80<br>-0.127<br>0.0<br>1.018<br>-3.765 | 161.36<br>-C.C13<br>-0.334             | 151.11<br>0.057<br>0.0<br>1.018<br>1.686   | 154.05                                  | 153.00                                      |
| FINF- 106.63                                                            | 1840                                                  | INVOLVE ZULLI-PASS EPPECT                                                                                                                      | 11-PASS                                     | PPPLCT                                     | I PASS                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TERPERATURE<br>SECH. STUALE<br>PLASTIC STRAIN<br>STREES                 | 150.01<br>0.452<br>-4.865<br>1.006<br>1.406<br>14.562 | 173.41                                                                                                                                         | 126.17                                      | 177.47                                     | 176.42<br>-0.129<br>-1.006<br>-1.006 | 7.00-17                                      | 172.46<br>-0.102<br>6.0<br>1.036<br>-3.031 | 160.69<br>-6.621<br>-6.626<br>-6.626   | 151.55<br>0.0<br>1.00<br>1.21.1            | 150.12                                  | 150.01<br>0.052<br>0.0<br>1.006<br>1.545    |
| TIME- 150.33                                                            | 041                                                   | INVOLVE NULTI-PASS EPPECT                                                                                                                      | 11-PASS                                     | EPPECT                                     | I PASS                               |                                              |                                            |                                        |                                            |                                         |                                             |
| TECHNOLOGY<br>MECH. SLASIM<br>PLAS. LC STASM<br>TOYAL STASIM<br>STURSS  | 150.35                                                | 17.74<br>-0.115<br>-0.455                                                                                                                      | 172.16<br>-4.110<br>-5.395<br>-3.260        | 171.50<br>-0.10<br>0.995<br>-1.136         | 170.78                               | 169.06<br>-0.003<br>0.00<br>0.995<br>-2.6 JB | 166.09<br>-0.082<br>-2.995                 | 154.06<br>-5.024<br>6.0<br>0.935       | 151.45<br>0.022<br>0.032<br>0.035<br>0.035 | 150.24<br>0.04<br>0.05<br>0.05<br>1.230 | 150.03<br>6.042<br>10.545                   |
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| TRAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 150.60<br>0.011<br>-4.605<br>0.965<br>143.350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                               |                                       | 151.66<br>-0.0<br>3.365<br>-0.05           | 150.55<br>0.037<br>0.465<br>0.220        | 150.24<br>0.019<br>0.765<br>0.284          |
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| 150.00<br>0.00<br>-4.805<br>0.961<br>143.248                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 7887                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 150.33<br>0.005<br>-4.405<br>0.459                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                               | -                                     |                                            | 153.53<br>6.60<br>9.959<br>9.036         | 150.29                                     |
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|            | 151.17<br>-0.96.<br>0.45.                                         | 55.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|
|            | 153. 12<br>-0. 320<br>0. 954<br>-0. 601                           | 152.70<br>-6.016<br>0.954<br>-0.535                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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 |
|            | 153.43                                                            | 152.76<br>-0.018<br>0.954<br>-0.548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 152.25<br>-0.016<br>0.0<br>0.953                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1 PASS     | 53.54<br>-0.02<br>0.0<br>0.356<br>-0.065                          | 1 PASS<br>-0.054<br>-0.554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| FFECT      | 353.60<br>-0.322<br>0.956<br>-0.656                               | 152.91<br>-2.019<br>-0.954                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| NUL11-PASS | 153.64<br>-0.322<br>6.3<br>0.456<br>-c.666                        | 13901EE RULTI-FASS EPPLCI<br>10. 152.99 152.95 152.91<br>10. 0.30 0.30 0.30<br>15. 0.95 0.35 0.95<br>15. 0.95 0.35 0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| £133.      | TEMPERATURES AECH. SLAZIS PLASIC STRA TOTAL STRAIN STRESS         | TEXPESSURE<br>BECS. 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|            | .2 52                                                                 | . =              | 32                                       |                   | -2 42                                                                   |                           | .2 32                                                                  |                           | .2 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | .4 92                                                                  |                    | .= :                                          |
|------------|-----------------------------------------------------------------------|------------------|------------------------------------------|-------------------|-------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|--------------------|-----------------------------------------------|
|            | 56.23                                                                 |                  | 9.00                                     |                   | 150.24                                                                  |                           | 15.00                                                                  |                           | 150.29<br>-3.016<br>9.0<br>0.940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           | 150.23                                                                 |                    | 56.25                                         |
|            | 150.01<br>-9.017<br>-0.500                                            | 150.41           | 2.50                                     |                   | 153.41<br>-0.617<br>0.940<br>-0.530                                     |                           | 15.0.1<br>-0.01<br>-0.00<br>-0.00<br>-0.00<br>-0.00                    |                           | 156.41<br>-0.317<br>0.940<br>-0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           | 250.41<br>-0.017<br>-0.117<br>-0.500                                   |                    | .0.01                                         |
|            | 150.56                                                                | 100              | 0.0                                      |                   | 150.56                                                                  |                           | 150.5<br>-0.01<br>0.00<br>0.04<br>0.54                                 |                           | 156.56<br>-0.314<br>0.240<br>-0.531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           | 150.56<br>-5.016<br>0.00<br>0.94.0                                     |                    | 35.5°                                         |
|            | 150.97                                                                |                  | 2.00                                     |                   | 155.97                                                                  |                           | 155.47                                                                 |                           | 150.97<br>-0.321<br>-0.5<br>-0.5<br>-0.513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           | 50.00                                                                  |                    | 152.57                                        |
|            | 151.20                                                                | 151.20           | 000                                      |                   | 151.23<br>-0.022<br>0.340<br>-0.661                                     |                           | 151.23<br>-0.022<br>6.0022<br>-6.661                                   |                           | 151.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           | 151.22<br>-0.022<br>0.940<br>-0.661                                    |                    | 151.20                                        |
|            | 151.22<br>-0.022<br>-0.943<br>-0.943                                  | 151.22           | 000                                      |                   | 51.22<br>-0.322<br>-0.40<br>-0.40                                       |                           | 5.75                                                                   |                           | 151.22<br>-0.022<br>3.6<br>0.340<br>-0.665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           | 151.22<br>-0.022<br>0.90<br>-0.665                                     |                    | 151.22                                        |
| 2 PASS     | 151.26                                                                | 2 PASS<br>151.20 | 200                                      | 2 PASS            | 151.2.<br>-0.023<br>0.440<br>-0.673                                     | 2 PASS                    | 151.26                                                                 | 2 PASS                    | 151.26<br>-3.024<br>9.0<br>-3.980<br>-3.673                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 PASS                    | 151.26<br>-6.623<br>0.940<br>-3.672                                    | 2 PASS             | 151.26                                        |
| MERCI      | 151.27                                                                |                  | 25.5                                     | EFFECT            | 151.27<br>-0.023<br>0.0<br>0.460<br>-0.678                              | EFFECT                    | 151.27                                                                 | EPFECT.                   | 151.27<br>-0.023<br>-0.940<br>-0.675                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IFFECT                    | 151.27<br>-0.023<br>3.0<br>9.940<br>-0.675                             | PPLCT              | 151.27<br>-0.023                              |
| RULTI-PASS |                                                                       | 151.28           | 77.9                                     | ANDLEE BULFI-PASS | 151.28<br>-0.323<br>-0.346<br>-0.676                                    | INVOLVE BULTI-PASS EFFECT | 151.20                                                                 | INVOLVE RULTI-PASS EFFECT | 35.22<br>2.022<br>2.022<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032<br>2.032 | INVOLVE AULTI-PASS EPPECT | 151.24<br>-0.623<br>0.3<br>0.940<br>-0.678                             | INVCLVE ZULTI-PASS | 151.29                                        |
|            | 151.10                                                                | 151.30           | 7.3                                      | TAE NOT           | 37.00                                                                   | 168 947                   | 3,000                                                                  | TAE GOI                   | 151.30<br>-2.023<br>-0.943                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LVE AUL                   | 6.323<br>6.023<br>6.023<br>6.040<br>6.040                              | 102 317            | 151. 16                                       |
| TATOARE .  | 30,44                                                                 | 3.7              |                                          | 24                | 30.00                                                                   |                           | 150.60<br>-0.314<br>-4.639<br>0.940<br>139.442                         | 2487                      | 150.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1840                      | 150.20<br>-0.014<br>0.340<br>135.442                                   | THAC               | 10.05                                         |
| 2.0        | TERFERATURE<br>BLCK. STRAIN<br>PLASTIC STAIN<br>TOTAL STAIN<br>STRESS | 1.30             | PLASTIC STALLS<br>TOTAL SCRALN<br>STRESS | 2.00              | TERPERATURE<br>RECH. STRAIN<br>PLASFIC STRAIN<br>TOTAL STRAIN<br>STRESS | 9.00                      | TENTERATURE<br>MECH. SEMAN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STREAS |                           | TURE<br>1813<br>SELAIN<br>CRAIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.00                      | TEMPERATURE<br>BECH: STRAIN<br>PLASTIC SFRIM<br>TOTAL STRAIN<br>STRESS | 00.9               | JENEGRATURE<br>MECH. STRAIN<br>PLASTIC SEPAIN |
| TIRE-      | TENCENA<br>MICH. S<br>PLASTIC<br>TOTAL 3<br>STRESS                    | TEAPER.          | 7074. S<br>7074. S<br>578.55             | 11m.              | TERPEASTORS RECH. STRAI PLASFIC STRAI TUTAL STRAI STRESS                | TINE.                     | HECK. S.<br>PLASTIC<br>TOTAL S                                         | TIME.                     | TERPESTURE<br>NECH: STRAIN<br>PLASTIC STRAIN<br>TOTAL SCRAIN<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TIME.                     | TERPENA<br>BRCH. S<br>PLASTIC<br>TOTAL S<br>STRESS                     | TIME.              | TENECOATURE<br>MECH. STRAIN<br>PLASSIC SPRAI  |

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| Column                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TIRE- 7.30                                                              |                                          | 101 3ATOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40L11-PASS                        | EPPEC1                                     | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|------------------------------------------|-------------------------------------|------------------------------------------|------------------------------------------|--------|--------|-------------------------------------------|--|
| 19.50   15.50   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151.20   151   | TERPLATOR TECH. STRAIN PLASTIC STRAIN TOTAL STRAIN                      | 1777                                     | 2 4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                                            | 151.26                                   | 27.00                               |                                          |                                          | -      | ā      | -                                         |  |
| 178.56   151.56   151.20   151.20   151.20   151.20   151.20   151.30   150.37   150.55   150.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                         |                                          | 107 3410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LTI-FASS                          |                                            | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
| 14 POLICE BULLI-CLASS EFFECT 2 FASS  -1.449 -10.24 -10.249 -10.207 -0.207 -0.207 -0.207 -0.203 -0.203 -0.203 -0.203 -0.204 -0.204 -0.204 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.207 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.203 -0.20 | TERPERATURE<br>BECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRINS |                                          | 151.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 151.30<br>-6.622<br>-6.91         | 5.000                                      | 151.26                                   | 151.22<br>-0.021<br>-0.521          |                                          |                                          |        | -      |                                           |  |
| 187.06   151.06   151.25   151.26   151.20   150.37   150.55   150.41    -1.444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                         |                                          | 14 1410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 111-1455                          | PPECT                                      | 2 FASS                                   |                                     |                                          |                                          |        |        |                                           |  |
| 1873LFF   1847E7   2 PASS   151.24   151.24   156.54   156.54   150.41   15.35   151.27   151.24   156.54   156.54   150.41   15.35   151.27   151.24   151.24   151.24   150.77   156.54   150.41   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034   1.034     | TEMPERATURE<br>RECE. STRAIN<br>PLASTIC SIRAIN<br>TOTAL STRAIN           | •                                        | The state of the s | 151.40                            | 151.29<br>-0.007<br>0.6<br>3.955<br>-6.222 | 151.26<br>-0.067<br>0.355<br>-0.116      | 151.22<br>-6.667<br>6.955<br>-0.202 |                                          |                                          |        |        |                                           |  |
| 13.547                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         | ***                                      | IN JATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 111-6455                          | 122441                                     | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
| SOULOU   MULTI-PASS   SPTECT   2 PASS   150.41   150.56   150.41   150.56   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   150.50   150.41   | TEHFEN FURE<br>NECK. STRAIN<br>PLASTIC STALI<br>TOTAL STRAIN<br>STRISS  |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.030                             | 151.35<br>0.075<br>1.036<br>2.242          | 151.27<br>0.03<br>0.03<br>1.634<br>8.259 | 151.22                              | 151.20<br>0.076<br>0.0<br>1.034<br>2.273 | 156.97<br>0.076<br>6.6<br>1.038<br>2.121 | 1.0.0  |        |                                           |  |
| 17.576                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         | 1                                        | 107 3410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 111-PASS                          | RPECT                                      | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
| 1800.00 230.76 150.26 151.40 151.23 151.20 150.97 150.56 150.41 -17.561 -0.512 0.000 0.00 0.00 0.106 0.107 0.007 150.56 150.41 -17.561 -0.512 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TERPENTURE<br>BECK. SFRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS  |                                          | 4.225<br>4.625<br>6125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20000                             | 2.50                                       | 151.11<br>0.284<br>1.064<br>2.559        |                                     | 151.20                                   | 150.97                                   |        |        |                                           |  |
| 17.561 -0.512 0.054 0.093 0.101 0.102 0.102 0.104 0.105 150.41 15.20 150.91 150.56 150.41 15.561 -0.512 0.054 0.093 0.101 0.102 0.102 0.104 0.105 0.105 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.004 1.00 | TIRE- 12.00                                                             |                                          | 101 3470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .TI-PASS                          | SPECT                                      | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
| 1890LVE MULEI-PASS EFFECT 2 PASS 250C.0C 279.54 165.29 154.20 151.20 150.97 150.54 150.41 -17.545 -0.754 0.021 0.097 0.115 0.114 0.114 0.19 9.124 0.124 -17.545 0.00 0.00 0.00 0.0 0.0 0.0 1.084 1.084 1.084 1.084 1.084 1.084 1.084 1.084 1.084 0.0 -23.256 0.617 2.897 3.421 3.543 3.597 3.554 3.637 3.648                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HERPESTURE<br>HECH. STRAIN<br>PLASTIC STRAIN<br>FOTAL STRAIN            | 2504.00                                  | 238.78<br>-0.512<br>6.0<br>1.064<br>-15.098                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156.28<br>2.054<br>1.054<br>1.549 | 152.58<br>0.093<br>1.064<br>2.758          | 151.40                                   |                                     | 151.20<br>0.102<br>1.044<br>3.034        | 150.97                                   |        | _      |                                           |  |
| 450C.0C 279.54 165.29 154.20 151.62 151.23 151.20 150.97 150.54 150.41 - 17.545 -0.754 0.021 0.097 0.115 0.114 0.119 0.124 0.124 0.125 0.125 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         | 184                                      | 10F 2A70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ITI-PASS                          | RPECT                                      | 2 PASS                                   |                                     |                                          |                                          |        |        |                                           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PLASTIC STALLS PLASTIC STALLS POTAL STALLS BRESS                        | 2500.00<br>-17.545<br>-17.545<br>-17.545 | 279.54<br>-0.793<br>0.0<br>1.000<br>-13.256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 165.29<br>0.021<br>1.066          | 154.20<br>0.097<br>1.660<br>2.641          | 151.62                                   | 151.23                              | 151.20                                   | 150.97<br>0.119<br>0.0<br>1.082<br>1.554 | 150.56 | 150.41 | 350.29<br>0.124<br>0.00<br>1.000<br>3.692 |  |

| 3.5                                                                      | *                                                                        | DE ZATOART                                 |                                      | FFECT                                      | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------------------------|
| TEMPERATURE:<br>BLCH. ACARA<br>PLASTIC SIPA.E<br>TOTAL STRAIP<br>STRINS  | 37.5.3                                                                   | 2.5.5                                      | 12:33                                | 156.86<br>0.0<br>1.09<br>1.77              | 1.09.1                                   | 27.55.                                   | 6.1.2<br>6.1.2<br>1.92<br>1.92<br>1.92   | 27.55                                    | 6.15<br>6.15<br>6.15<br>6.15<br>6.15<br>6.15 |                                          |                                                                      |
| 15.00                                                                    | 1880                                                                     | 347                                        | INVOLVE AUTI-PASS LFFECT             | FFFET                                      | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| TERPEDATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS  | 150c. 00<br>- 17. 520<br>- 17. 526<br>1. 145                             | 35.5.<br>2.5.5.<br>2.5.5.                  | 1.105                                | 160.66<br>0.079<br>6.0<br>1.105<br>2.34    | 153.53                                   | 151.29<br>6.00<br>1.135<br>4.244         | 151.21                                   | 150.97                                   | 150.56                                       | 150.41                                   | 50.29<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.0 |
| PLAE - 16.30                                                             | 0481                                                                     | 14.5                                       | INVOLUE AULTI-FASS KPFECT            | KPFECT                                     | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| TENCERTORL<br>RECL. SERLE<br>PLASLIC STRALE<br>FOTAL SCRALE<br>STREES    | 2536.05<br>-17.511<br>-17.511                                            | 251.25<br>-1.297<br>-17.11                 | 197.59<br>-0.165<br>-0.165<br>-1.119 | 165.32                                     | 155.03                                   | 151.35<br>0.152<br>0.0<br>1.114<br>1.513 | 151.24<br>0.152<br>0.0<br>1.114<br>4.535 | 150.97                                   | 150.5°<br>0.157<br>0.0°<br>1.114             | 150.41                                   | 150.29<br>0.153<br>0.0<br>1.114                                      |
| 17.30                                                                    | 18%                                                                      | 08 2AT                                     | INVOLVE BULTI-PASS EFFECT            | ITTECT                                     | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| TENDEBATURE<br>RICH. STADD<br>PLASTIC STADD<br>TOTAL STRAIN<br>STREES    | 2530.00<br>-17.563<br>-17.503<br>1.122<br>6.0                            | 1.1.1.<br>1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | 269.07                               | 173.79<br>0.026<br>1.122<br>0.771          | 157.01                                   | 151.46                                   | 151.45                                   | 150.97<br>6.162<br>0.0<br>1.122          | 153.56<br>0.0<br>1.122<br>4.902              | 150.41                                   | 150.24<br>0.167<br>0.0<br>1.122<br>4.957                             |
| 30.55                                                                    | 1870                                                                     | 747                                        | DRACE MULTI-FASS                     | EFFECT                                     | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| MECH. STRAIN<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | 2566.00<br>- 17. 496<br>- 17. 496<br>- 17. 496<br>- 17. 496<br>- 17. 496 |                                            | 219.43                               | 176.74<br>-0.009<br>6.0<br>1.129<br>-0.256 | 155.46                                   | 151.63                                   | 151.30                                   | 150.97<br>3.168<br>0.0<br>1.129<br>5.013 | 150.56                                       | 150.41<br>0.172<br>0.0<br>1.129<br>5.126 | 150.29<br>0.173<br>0.173<br>1.129<br>5.151                           |
| 3.35                                                                     | CART                                                                     | 08 247                                     | SSV4-FLTON ZATCART                   | SPPEC.                                     | 2 PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| TEAPERACUEN<br>ABCU- STRALZ<br>PLASTIC STRALZ<br>TOTAL STRALZ<br>STRANS  | 17.431                                                                   | 10.00                                      | 229.40                               | 182.89<br>-0.046<br>0.0<br>1.134<br>-1.359 | 162.13<br>0.036<br>0.0<br>1.134<br>2.855 | 152.22                                   | 5.134                                    | 50.97                                    | 150.56<br>30.177<br>30.0<br>1.134<br>5.263   | 150.41<br>0.17#<br>5.294                 | 156.29<br>0.17;<br>0.6<br>1.13%<br>5.318                             |
| 20.30                                                                    | 1870                                                                     | LV & AU                                    | INVOLVE BULTI-PASS LPPFCT            | PP FCT                                     | A PASS                                   |                                          |                                          |                                          |                                              |                                          |                                                                      |
| TERPERATURE<br>RECH. SIMALS<br>PLASSIC SCRAIN<br>TOTAL STRAIN<br>STRESS  | -16.682                                                                  | 1.546                                      | 234.13                               | 149.36                                     | 1.053                                    | 152.70<br>6.040<br>1.354<br>2.295        | 151.46<br>6.064<br>1.052<br>2.645        | 150.47                                   | 150.56                                       | 153.41                                   | 155.29<br>0.691<br>2.063                                             |
|                                                                          |                                                                          |                                            |                                      |                                            |                                          |                                          |                                          |                                          |                                              |                                          |                                                                      |

|             | 150.29<br>0.11n<br>1.074<br>1.525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           | 150.25                                                                  |                           | 150.29<br>0.113<br>0.0<br>1.075<br>3.543                               |                           | 50.25<br>2.00.1<br>2.00.1<br>5.50.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|             | 156.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                               |                           | -0.370<br>-2.370<br>-2.375                                              |                           | 169.07<br>-0.146.<br>-0.05<br>-4.196                                   |                           | 196.43<br>-0.201<br>-5.453                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 2 6153      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 PASS                    | 219.42<br>-0.161<br>0.3<br>-10.711                                      | 2 PASS                    | 228.39<br>-0.427<br>5.0<br>1.075<br>-12.552                            | 2 PASS                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 PASS                    | 229.29<br>-0.439<br>-0.5<br>-12.948                                     | 2 PASS                    | 226.61                                                        |
| EPPECT      | 233.56<br>-0.66<br>0.6<br>-1.762                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PFFECT                    | 249.76<br>-0.580<br>0.0<br>1.075                                        | EFFECT.                   | 253.12<br>-0.665<br>0.0<br>1.075                                       | NAPRCS                    | 251.36<br>-0.594<br>(.0<br>1.074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EPFECT                    | 247.53<br>-0.568<br>0.3<br>1.672<br>-16.765                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EFFECT                    | 242.87<br>-0.537<br>0.0<br>1.009<br>-15.808                             | EFFECT                    | 237.59                                                        |
| BUL 11-6455 | 23.52<br>-6.73<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63<br>-1.63 | INVOLVE NULTI-PASS APPECT | 28.08<br>-0.812<br>0.3<br>-24.365                                       | INVOLVE AULTI-PASS EFFECT | 278.96<br>-0.794<br>6.0<br>1.075<br>-23.277                            | INVOLVE AULTI-PASS APPECT | 27.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                     | INVOLVE BULTI-PASS EPPECT | 55.66<br>-0.629<br>6.0<br>1.069                                         | INVOLVE MULTI-PASS EFFECT | 24.52<br>-0.583<br>-0.583                                     |
| INACTAR BUL |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TAE #01                   | 37.0.5                                                                  | 10 317                    | 25.00.7                                                                | TAE 167                   | 24.24<br>-0.91<br>-27.421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 180         | 1.25.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 1470                      | 20000                                                                   | 18.40                     | 1331                                                          |
| 10.00       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | *0.00                     | TENFERATORA<br>BECK. STRAIN<br>PLASTIC STRAIN<br>TOTAL SCRAIN<br>STAESS | 50.33                     | TEAPERTUBE<br>ABCH. SIAAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STOPIN | 00.00                     | TEMPLEATURE<br>MECH. STALIS<br>PLASTIC STRAIN<br>TOLAL STRAIN<br>STREES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 70.00                     | TEMPLATURES MECH. STUALU PLASILC STUALU TOTAL STRAIN STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 65.59                     | TEMPERATURE<br>BECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | 96.00                     | 1007                                                          |
| TIME.       | TENFERATURE<br>Rich. Stall<br>PLASTIC STALL<br>TOTAL STALL<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | *113.6*                   | TESPERA<br>BICL. S<br>PLASTIC<br>TOTAL S<br>STALESS                     | TIME.                     | TEAPER S<br>BLASSIC<br>TOTAL S<br>STPFSS                               | TIRE                      | TEMPLEA<br>NECH. S<br>PLASTIC<br>TOTAL S<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tiat.                     | TEMPLEA<br>MECH. S.<br>PLASTIC<br>TOTAL S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TIMI.                     | TEAPURE<br>BECH. S<br>PLASFIC<br>TOTAL S<br>STRESS                      | -1811                     | TEMPERATURE<br>MICH. SERVIN<br>PLASTIC STRAIN<br>TOTAL SERVIN |

THIS PAGE IS BEST QUALITY PRACTICARY
FROM COPY PUMPISHED TO DDC

| 150.23                                        | 150.29<br>0.049<br>6.0<br>1.045<br>2.048                                                                                                                                | 150.29                                                                                                                                                                                              | 155.29                                                                                                                                                                                 | 156.30                                                                                                                                                                                                                                                                                                                                                                                                        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|                                               |                                                                                                                                                                         |                                                                                                                                                                                                     | 150.05                                                                                                                                                                                 | 150.53                                                                                                                                                                                                                                                                                                                                                                                                        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|                                               | 159.68                                                                                                                                                                  |                                                                                                                                                                                                     | 151.66<br>9.048<br>0.0<br>1.312                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 152.40<br>0.021<br>0.0<br>0.491<br>0.614                                                                                                                                                                                                                                                                                                                       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|                                               | 159.75<br>0.028<br>0.0<br>1.585<br>J. 725                                                                                                                               |                                                                                                                                                                                                     | 162.32<br>-0.025<br>-0.035<br>-0.736                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               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|                                               | 191.63<br>-0.197<br>0.0<br>1.045<br>-5.826                                                                                                                              | 185.23<br>-C.169<br>0.0<br>1.627<br>-5.013                                                                                                                                                          |                                                                                                                                                                                        | 173.60                                                                                                                                                                                                                                                                                                                                                                                                        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|                                               |                                                                                                                                                                         | 184.57<br>-0.192<br>1.327<br>-5.703                                                                                                                                                                 |                                                                                                                                                                                        | 175.10<br>-0.125<br>6.0<br>1.061<br>-3.714                                                                                                                                                                                                                                                                                                                                                                    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| 22.55                                         | 207.68<br>-0.150<br>-0.150<br>-1.154<br>-1.154                                                                                                                          |                                                                                                                                                                                                     | 2 PASS<br>185.36<br>-0.182<br>6.0<br>1.313<br>-5.434                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                               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| 1.65                                          | 272.05<br>-0.343<br>-0.343<br>-10.150                                                                                                                                   | 197.53<br>-0.255<br>0.0<br>1.027<br>-7.552                                                                                                                                                          | 146.76<br>-0.194<br>0.0<br>1.013<br>-5.749                                                                                                                                             | 174.74<br>-0.150<br>1.001<br>-4.461                                                                                                                                                                                                                                                                                                                                                                           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| 10.00                                         | 21-PA35<br>20.173<br>20.173<br>1.045                                                                                                                                    | 199.43<br>-0.271<br>-0.271<br>-1.527                                                                                                                                                                | 188.18<br>-0.20<br>0.0<br>1.013                                                                                                                                                        | 179.66<br>-0.157<br>0.0<br>1.001<br>-4.653                                                                                                                                                                                                                                                                                                                                                                    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171.14<br>-0.121<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.0 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| 770-1                                         | 221.67<br>-3.809<br>-1.0%5                                                                                                                                              | 202.58<br>-0.291<br>0.0<br>1.027<br>-6.606                                                                                                                                                          | 165. E                                                                                                                                                                                 | 180.71<br>-0.164<br>-0.164<br>-1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 26.44<br>-5.425<br>-5.425<br>-5.225<br>-5.225 | 21.51                                                                                                                                                                   | 59. 14. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16                                                                                                                                                      | 152.72<br>0.041<br>-4.816<br>1.013                                                                                                                                                     | 150.81<br>0.042<br>-4.416<br>1.001<br>144.556                                                                                                                                                                                                                                                                                                                                                                 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| 102E                                          | TUSE<br>CPAIN<br>STRAIG                                                                                                                                                 | CO.                                                                                                                                                             | 450.00<br>TUBE<br>FPAIN<br>SIRAIN<br>CHAIN                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| IESTERA<br>IECL. S<br>ILASTIC<br>INTAL S      | TIST. B<br>PLASILG<br>TOTAL S<br>STALIS                                                                                                                                 | TENERAL SALENS STRESS                                                                                                                                                                               | TEAPERA<br>MECH. S<br>PLASTIC<br>TOTAL S<br>SPRESS                                                                                                                                     | TIRE.<br>TENESRA<br>MECh. S<br>PLASIIC<br>FOTAL S<br>STRISS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TERPENS<br>PLASTIC<br>TOTAL S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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STWALK PLASTIC STWALK TOTAL STWALK STWISS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                               | 14 252.43 441.48 233.17 223.53 203.70 194.37 155.05 150.56 150.41 125 -0.4616 -0.547 -0.445 -0.245 -0.198 0.074 0.195 0.106 135 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 280.48 252.93 481.98 243.17 224.55 203.70 194.37 155.05 150.56 150.41 -3.442 -3.616 -3.547 -3.473 -3.405 -3.264 -3.198 0.378 0.378 0.305 0.106 -3.495 0.106 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 200.44 252.93 241.98 233.17 223.55 203.70 194.37 155.05 150.56 150.41 -3.425 -3.66 -3.547 -3.475 -3.445 -3.564 -3.198 0.074 3.105 0.106 -5.455 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 200,44 252.93 441.98 233.73 203.70 194.37 155.05 150.56 150.41 1,042 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 1,045 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| TEMPLATURE<br>SECH. STAIN<br>PLASTIC STAIN<br>TOTAL STAIN<br>STREES     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| FIRE- 450.00                                                            | 7840                                 | 14. MIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IBVOLVE AULII-PASS LPFECT           | LPFECT                               | 2 PASS                             |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| TEMPSA FUSE<br>MECH. STHAIR<br>PLASTIC STRAIN<br>TOTAL SCHAIR<br>STRESS | 130.72                               | 51.22<br>-0.91<br>-0.91<br>-0.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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55.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00 | 152.67<br>-0.024<br>-0.944<br>-0.703       | 55.55<br>56.55<br>66.55<br>66.55            | 250.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00<br>-0.00 | 250.61<br>-0.010<br>-0.948<br>-0.245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| TIBE- 100.30                                                            | CANI                                 | 108 3/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| TEMPETATURE<br>ARCH. STRAIS<br>PLASTIC STRAIN<br>TOTAL SCRAIN           | 156.06                               | 151.26<br>-0.029<br>-0.181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 55.23                               | 153.19<br>-0.028<br>0.0<br>0.947     | 153.15                             | 151.00<br>-0.01<br>-0.01<br>-0.01          | 153.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| FIRE- 959.33                                                            | 14.00                                | LV E KUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| TENPLATULE<br>MECH. STALIN<br>PLASTIC STALIN<br>TOTAL STALIN<br>STALIS  | 30.00                                | 5589<br>-C.028<br>-0.0<br>-0.04<br>-0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| T.ME 16 06.00                                                           | 241                                  | LVE MUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | INVOLVE MULTI-PASS EPPECT           | EPPECT                               | 2 PASS                             |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| TEKPERATUPE<br>BECH. SIVAL<br>PLASTIC STRAÍN<br>TUTAL SÍVALN<br>STRESS  | 156.00<br>-0.039<br>-4.360<br>14.785 | 152.00<br>-3.027<br>-0.395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 152.57                              | 152.55<br>-0.026<br>6.66<br>-0.780   | 52.52<br>-0.026<br>0.06<br>-0.745  | 152.46                                     | 152.43<br>-0.025<br>6.0<br>0.445<br>-0.750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| TIAE- 1300.30                                                           | JANC                                 | 100 747                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| TEAPRIATURE BECK. SCIALS PLASTIC SCRAIN TOTAL STARLS                    | 126.00                               | 152.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 152.57<br>-2.326<br>0.945<br>-0.785 | 152.55                               | 152.52                             | 152.44<br>-9.026<br>0.9<br>0.945<br>-0.759 | 152.43<br>-0.025<br>6.9<br>C.945<br>-0.759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 3.0                                                                     | 78.40                                | TAE WAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LEVOLVE AULTI-PASS EFFECT           | EFFECT                               | 3 PASS                             |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| TLZ:C3ATURE<br>NECH. STRAIM<br>PLASTIC STRAIM<br>TOTAL STRAIM<br>STREEJ | 154.00<br>-C.026<br>-4.700<br>0.934  | -0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05<br>-0.05 | 152.57                              | 152.55                               | 152.52                             | 152.4%                                     | 152.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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15.54<br>-0.62<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03 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THIS PAGE IS BEST QUALITY PRACTICATION TROM COFY FORMISHED TO DDG

|                    | 150.50<br>-0.924<br>-0.753          | 150.58<br>-0.024<br>-0.934<br>-0.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|                    | 151.12<br>-0.23<br>-0.33<br>-0.434  | 151.12<br>-0.027<br>-0.327<br>-0.336                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| PASS               | 1.025                               | 25.52<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 152.52<br>-0.037<br>-0.036<br>-0.036<br>-1.093                                                                     | 152.72<br>-2.63.7<br>-2.63.1<br>-2.63.1                                              | 152.52<br>-0.037<br>0.034<br>-1.093                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                    |                    | 1452.40 151.93 151.12 153.42 153.50 14 0.074 3.077 0.343 0.645 0.546 0.0 0.0 0.3 0.0 1.044 1.044 1.044 1.044 19 2.194 2.292 2.454 2.519 2.557 |                           | 1152.40 151.93 151.12 150.42 150.58 1.05.14 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.0    |                    | 1952.43 151.93 151.12 150.42 150.58<br>19 6.100 C.103 C.1C4 C.11C 0.114<br>0.0 0.0 0.0 0.0 0.0<br>1.070 1.673 1.673 1.077 1.770<br>11 2.961 3.056 3.222 3.243 3.331 |                    | 1 152.40 151.93 151.12 150.82 150.50 15 0.115 0.119 0.124 0.126 0.128 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 |                  |
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-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|------------------|
| 3 PASS             | 152.52 152.64<br>-3.036 -0.035<br>0.035 0.935<br>-1.047 -1.051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ) Phss             | -0.020 -6.019<br>3.3<br>0.951 0.951<br>-0.590 -0.574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | J FASS             | 152.53 152.64<br>0.373 0.374<br>0.6 (.3)<br>1.04 1.344<br>2.171 2.169                                                                         | 3 PASS                    | 152.56 152.69<br>6.00 0.00<br>1.654 1.654<br>2.471 2.446                              | FSV4 F             | 152.66 152.45<br>6.054 6.059<br>0.0 0.0<br>1.070 1.070<br>2.958                                                                                                     | J PASS             | 152.eu 152.us<br>0.112 0.115<br>0.0 0.0<br>1.285 1.085<br>1.145 1.085                                        | 3 PASS           |
| EFFECT             | 152.55<br>-1.036<br>-1.035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EPPECI             | 52.5<br>-0.02<br>-0.02<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>- | EFFECT             | 152.6.1<br>6.072<br>1.004<br>2.151                                                                                                            | EDERC!                    | 152.84<br>0.041<br>0.0<br>1.654<br>2.415                                              | KPFECT             | 53.85<br>0.690<br>1.070<br>2.666                                                                                                                                    | EPPECT             | 155.48<br>0.094<br>6.0<br>1.085<br>2.806                                                                     | RPFECI           |
| INVOLVE AULTI-PASS | 169.16 152.06 152.59<br>-0.150 -0.030 -0.036<br>-1.700 0.0 0.0<br>(.v.) (.v.) (.v.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | INNOLES BULLI-FASS | 475.62 155.76 152.66<br>-2.424 -6.642 -6.421<br>-9.704 0.0 0.0<br>6.951 0.951 0.951<br>64.705 -1.247 -0.623                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TPACIAL AULTI-PASS | -17.541 -0.012 4.067 -17.541 -0.012 4.067 -17.541 0.0 6.0 1.044 1.044 1.044 0.0 0.0                                                           | INACTAE ROLFI-PASS EPFECT | 2500.00 197.59 155.36<br>-77.577 -0.229 0.066<br>-77.577 0.0 0.0<br>1.054 1.054 1.054 | IMPOLVE ARETI-PASS | 2504.30 239.69 154.57 1-17.555 -0.515 0.951 -17.555 0.0 0.0 1.016 1.016 1.000 0.0 0.0                                                                               | IBICLUE BULTI-FASS | -17.540 -0.797 0.018<br>-17.540 -0.797 0.018<br>-17.540 0.0 0.0<br>1.005 1.005 1.005<br>0.0 -23.354 0.541    | SEAT-ITUE THOUSE |
| 112 P. 0.00        | TEMPERATUSE<br>ACCU. STRAIN<br>PLISTIC STRAIN<br>TOTAL STRAIN<br>STRANG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tint- 1.33         | Tearem ture<br>Abelic Strain<br>Total Strain<br>Striss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11ar- 16.00        | TERP STATUS<br>BICH. STATUS<br>FLASTIC STATUS<br>TOLAL STATUS<br>STRESS                                                                       | TIRE- 11.30               | TENTERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>STRAIN<br>STRAIN                     | T13E- 12.33        | TERFLATURE<br>BECH. STRAIN<br>PLASTIC SPAIN<br>STRESS                                                                                                               | TIME 13.00         | TENTERATUSE<br>MACH. SIBALS<br>PLANTIC STRAIG<br>TOTAL SCALB<br>STRESS                                       | TIRK- 19.39      |

|                    | 6.58<br>6.070<br>1.024<br>2.065                  | 153.58<br>0.162<br>0.6<br>1.120<br>4.836                                                                     |                                                     | 150.5d<br>0.0<br>1.64 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 150.54<br>0.091<br>1.04.4                                       | 50.58<br>0.094<br>0.0<br>1.051<br>2.790                                                                | 0.054<br>0.094<br>1.055                                                                                                        | 150.58                                                                                                              |
|--------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                    | 150.82 15<br>C.C6u<br>0.0<br>1.628<br>2.037      | 153.42 15<br>5.161<br>6.161<br>1.120                                                                         |                                                     | 150.82 15<br>0.084<br>0.0<br>1.043<br>2.488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 50.82<br>6.08<br>1.04<br>2.659                                  | 150.42 15<br>0.092<br>0.0<br>1.051<br>2.742                                                            | 150.82 15<br>0.096<br>0.0<br>1.055<br>2.855                                                                                    | 153.42 15<br>0.105<br>1.065<br>3.146                                                                                |
|                    | 151.12                                           | 15.12                                                                                                        | ****** L1 9350 ************************************ | 151.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 151.12<br>C.001<br>C.0<br>1.343<br>2.558                        | 2.132                                                                                                  | 151.12<br>0.654<br>0.0<br>1.055<br>2.794                                                                                       | 151.12                                                                                                              |
|                    | 151.43                                           | 151.93<br>6.153<br>1.123                                                                                     | 350                                                 | 2.261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 151.93                                                          | 151.93<br>0.00<br>0.0<br>1.051<br>2.515                                                                | 151.93<br>6.084<br>0.0<br>1.055<br>2.628                                                                                       | 151.93<br>3.0<br>1.0%<br>2.403                                                                                      |
|                    | 152.41                                           | 152.43                                                                                                       | 00.004                                              | 152.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20.00                                                           | 152.56<br>0.00<br>1.051<br>2.147                                                                       | 152.66<br>6.03<br>1.055<br>2.480                                                                                               | 157.49                                                                                                              |
|                    | 152.51                                           | 152.57                                                                                                       | 3                                                   | 152.6H<br>9.071<br>1.043<br>2.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 152.45                                                          | 153.4%<br>0.07%<br>0.00<br>1.051<br>2.20%                                                              | 153.92<br>C.075<br>0.0<br>1.055<br>2.225                                                                                       | 16.63                                                                                                               |
| J PASS             | 154.79<br>0.041<br>0.0<br>1.328<br>1.238         | 3 PASS<br>0.123<br>0.0<br>1.120<br>1.673                                                                     |                                                     | 154.24<br>0.04<br>1.04<br>1.04<br>1.04<br>1.04<br>1.04<br>1.04<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 PASS<br>160.75<br>6.0<br>1.049<br>0.639                       | 3 PASS<br>0.00<br>0.00<br>1.051<br>1.051                                                               | 3 PASS<br>166.76<br>-0.013<br>1.355<br>-0.193                                                                                  | 3 PASS<br>202.11<br>-0.236<br>0.0<br>1.365<br>-7.033                                                                |
| FFECT              | 161.88                                           | 100.00<br>1.053<br>1.053                                                                                     | 2442.41                                             | 172.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 174.01<br>-0.098<br>0.0<br>1.049                                | 184.17<br>-0.138<br>6.0<br>1.051                                                                       | 190.33<br>-6.177<br>0.0<br>1.655<br>-5.242                                                                                     | 234.01<br>-6.483<br>-0.05<br>-1.005                                                                                 |
| INVOLVE AULTI-PASS | -6.142<br>-0.142<br>-5.456                       | LANDLYE MULII-F155  uv 152.74 194.47  545 -1.340 -4.172  bu 0.12  1.24 1.12  1.24 1.12  1.25 1.12  1.25 1.12 | INVOLVE MULTI-PASS SPRECT                           | 20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35<br>20.35 | 221.10                                                          | 18VOLVE FULTI-PASS 19 375.02 236.06 577 -1.534 -0.464 571 0.0 () 151 0.0 1.051 1.051 1.051 1.051 1.051 | IBVOLVE BULLI-PASS EVFECT<br>562 -1.552 -0.52c -0.17<br>910 0.0 0.0 0.0<br>0.55 1.055 1.055 1.055<br>940 -44.060 -15.40c -5.24 | 14 362.05 246.77 234.41 17 362.05 246.77 234.41 18 362.05 1.018 - 6.48 253 0.00 0.00 6.0 455 -41.444 -21.966 -14.24 |
| 104 347            | 21.57<br>-1.270<br>-1.524<br>-1.524              | 152.74<br>-1.300<br>-1.300                                                                                   | LVE RULTI-PASS                                      | 35.52<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1)C. 64<br>-1. 534<br>C. 0<br>1. 049<br>-43. 616                | 175.02<br>-1.534<br>0.0<br>1.051<br>-44.461                                                            | 177.41<br>-1.552<br>0.0<br>1.055<br>-44.663                                                                                    | 302.00<br>-1.433<br>-1.433<br>-41.444                                                                               |
| 1000               | 7                                                | 34.5-3                                                                                                       | 14 WG                                               | 17.410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3:4-0                                                           | 325-3                                                                                                  | 355-=                                                                                                                          | 3444                                                                                                                |
| 15.33              | .1.                                              | Percent of Strain                                                                                            | TIRE 17.00                                          | =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TENTER 18.60 TENTERFUE RECH. SIPAIN PLASTIC JINAIN TOTAL STRAIN | 3                                                                                                      | TIRUE 10.00<br>HECH STRAIN<br>PLESTIC STRAIN<br>TOTAL STRAIN<br>TOTAL STRAIN                                                   | TING 30.00<br>TECFCHAIUMS<br>ARCH. STRAIN<br>PLASIIC STRAIN<br>TOTAL STRAIM<br>STREES                               |
| *185               | TETFURE TORE RECH. STRAIN STREETS STRAIN STREETS | TIME TELES                                                                                                   | 311                                                 | TENDERATURE<br>MECH. STRAIN<br>PLATIC STRA<br>TUTAL NIALIS<br>STRAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TENERALCH PRINCIPLE STREES                                      | TENERALUSE NA. STREIL STREIL STREIL STREIL STREIL STREIL STREIL STREIL STREILS                         | TERPERA<br>HECH. S<br>PLASTIC<br>TOTAL S                                                                                       | TIME JO. TERFCHARUME RECH. SENAI PLASIIC STR TOTAL STRAI                                                            |

THIS PAGE IS BEST QUALITY PRACTICABLE. FROM GOPY FUNEISHED TO DDG

|            | 150.58                                                                  | 150.58<br>0.114<br>0.0<br>1.676<br>3.345                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 150.54<br>0.114<br>0.0<br>1.669<br>3.322                               | 150.58<br>0.113<br>6.0<br>1.067<br>J.267                                                                                                          | 15C.58<br>0.107<br>0.C<br>1.664<br>3.140                                                                                                           | 150.56<br>0.164<br>0.0<br>1.661<br>3.063                             | 150.58<br>0.169<br>0.0<br>1.058                                                                                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | 153.42                                                                  | 150.82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 153.84<br>9.116<br>0.0<br>1.669<br>J.273                               | 150.82<br>0.0<br>1.067<br>3.218                                                                                                                   | 150.02<br>0.105<br>6.3<br>1.664<br>3.132                                                                                                           | 153.82<br>(.102<br>0.0<br>1.061<br>3.035                             | 150.42                                                                                                                                                                                                                                                            |
|            | 151.12                                                                  | 151.12<br>C.169<br>0.3<br>1.073                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 151.12<br>0.0<br>1.069<br>3.212                                        | 151.12<br>6.16<br>1.367<br>1.367                                                                                                                  | 151.12<br>0.103<br>0.3<br>1.664<br>3.371                                                                                                           | 151.12                                                               | 151.12<br>0.096<br>0.0<br>1.334                                                                                                                                                                                                                                   |
|            | 151.95                                                                  | 152.34<br>6.102<br>3.3<br>1.030<br>3.049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 62.29<br>6.100<br>0.0<br>1.069<br>2.975                                | 153.38<br>0.393<br>0.67<br>1.367                                                                                                                  | 153.93<br>0.00%<br>0.0<br>1.064<br>2.499                                                                                                           | 2.197<br>2.197                                                       | 26.32<br>0.001<br>1.034<br>1.034                                                                                                                                                                                                                                  |
|            | 167.53                                                                  | 176.95<br>-0.069<br>-2.061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -0.121<br>0.0<br>1.669<br>-3.578                                       | -0.158<br>0.0<br>1.367                                                                                                                            | 192.70<br>-0.184<br>6.0<br>1.064<br>-5.457                                                                                                         | 194.61                                                               | 195.56<br>-3.211<br>(.3<br>1.354                                                                                                                                                                                                                                  |
|            | 179.C4<br>-0.085<br>0.0<br>1.069                                        | 190.29<br>-C.162<br>0.0<br>1.070<br>-4.793                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 197.65<br>-0.414<br>1.069<br>-6.342                                    | 201.94<br>-3.247<br>6.6<br>1.067<br>-7.297                                                                                                        | 204.22<br>-0.265<br>0.0<br>1.064<br>-7.648                                                                                                         | 205.03                                                               | 203.51<br>-0.277<br>6.0<br>1.054                                                                                                                                                                                                                                  |
| 3 PASS     | 2.0.66<br>-0.174<br>0.0<br>1.069                                        | 3 FASS<br>224.e3<br>-0.441<br>-0.441<br>-1.570<br>-12.496                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 PA3S<br>432.56<br>-0.463<br>1.069<br>-13.639                         | 232.14<br>-0.463<br>-0.0<br>1.067                                                                                                                 | 3 PASS<br>-0.453<br>-0.453<br>1.064                                                                                                                | 3 PASS<br>-0.437<br>0.0<br>1.061                                     | 3 PASS<br>-0.410<br>-0.410<br>-1.514                                                                                                                                                                                                                              |
| EFFECT     | 285.11 250.94<br>0 -0.847 -0.596<br>0.0 0.0<br>1.045 1.069              | 54.36<br>-0.619<br>-0.619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200                                                                    |                                                                                                                                                   |                                                                                                                                                    | 239.24<br>-0.519<br>0.01<br>1.061                                    | P + 3                                                                                                                                                                                                                                                             |
| BULTI-PASS | 245.21                                                                  | ZHULLVE HULTI-PASS EFFECT<br>Ju Jie.77 200.20 250.36<br>Jim -1.079 0.30 0.00<br>070 1.070 1.070 1.070<br>967 -11.070 -23.664 -18.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 174.58<br>-6.753<br>1.669<br>1.669                                     | IMVOLVE RULII-PASS EFFECT  11 205.20 264.50 248.78  214 -0.448 -0.696 -0.588  734 0.0 0.0 C.0  607 1.047 1.067 1.067  867 -24.843 -20.448 -17.104 | 1840LVE AULTI-PASS EFFECT<br>746 -0.73 0 256.92 244.12<br>746 -0.70 -0.643 -0.55<br>310 0.0 0.0 0.0<br>0.4 1.0c4 1.0c4 1.0c4<br>146 -12.302 -16.50 | 749.78<br>-0.595<br>0.0<br>1.061                                     | INVOLVE AULTI-PASS EFFECT  112 - 3.610 - 0.551 - 0.465  113 - 0.610 - 0.551 - 0.465  114 - 0.610 - 0.551 - 0.465  115 - 0.610 - 0.551 - 0.465  115 - 0.610 - 0.551 - 0.465  115 - 0.610 - 0.521 - 0.465  115 - 0.610 - 0.621 - 0.621  115 - 0.610 - 0.621 - 0.621 |
|            | 11.23                                                                   | -1.079                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 299.52<br>-0.952<br>-0.952<br>-27.622                                  | 105.28<br>-0.648<br>0.0<br>1.007<br>-24.843                                                                                                       | 273.30<br>273.30<br>-0.763<br>0.0<br>1.004                                                                                                         | 201.06<br>10.691<br>0.0<br>1.061<br>-20.307                          | 72 AUE<br>-3.630<br>0.0<br>1.054<br>14.534                                                                                                                                                                                                                        |
| TRAOTAE    | -5.44y<br>-9.44z<br>107.076                                             | 5 440.14 316.77 240.20 2-1,171 4-1,079 4-0-20 2-1,171 4-1, 070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-070 1-0 | 262.59<br>-2.841<br>-7.301<br>1.069                                    | 126.67                                                                                                                                            | 11.746<br>11.746<br>11.746                                                                                                                         | 156. 49 2<br>-5. 971<br>-5. 971<br>1.661                             | 119.46 2<br>-1.112<br>-5.758<br>1.358                                                                                                                                                                                                                             |
| 00.00      |                                                                         | TIML 50.33 TEMPERATURE STATE S |                                                                        | TERPEPATURE<br>RECH. STUALU<br>PLASTIC STRAIN<br>TOTAL SEMALU<br>STRESS                                                                           | TIMES 80.53 TIMES STATURE RECH. STRAIN PLASTIC STRAIN TOTAL STRAIN STRAIN STREES                                                                   | . :                                                                  |                                                                                                                                                                                                                                                                   |
| TIRE-      | TEMPERATURE<br>MECH. SIBAIN<br>PLASTIC SIBAIN<br>TOTAL SIBAIN<br>STRESS | TIME AND NECH S PLASTIC TOTAL S STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TIRLA 60.00 TERPLANTULE RECH. SFANN PLASTIC STRAIN TOTAL STRAIN STRESS | TERPERTURE<br>RECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN                                                                                      | TIME - 60.5<br>TIME BATURE<br>RECH. SINALE<br>PLASTIC SINALE<br>TOTAL STRALE<br>STRESS                                                             | TENE 90.0 TENERATURE NACH. STRAIN PLASILE STRAIN TOTAL STRAIN STRESS | ZINF 100.00 TENIZHAJURE FECH. S.PAIN PLASTIC S.PAIN STRPSS                                                                                                                                                                                                        |

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| 12 150.56<br>140 0.042<br>1.039<br>1.039<br>1.039                                           | 13 150.58<br>63 0.065<br>7.0005<br>123 1.023                              | 150.58<br>6.051<br>6.051<br>1.004<br>1.004                                        | 156.59<br>14 0.034<br>0.0<br>56 0.996<br>1.133                                                                      | 150.61<br>25 0.628<br>3.00<br>3.00<br>3.7 0.823                                                 | 1 150.64<br>16 C.019<br>77 C.977<br>6.561                                                                                   | 2. 155.nd<br>Je 5.011<br>0.5<br>10 5.57J                                                                                           |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 23 150.42<br>277 0.043<br>0.0 0.0<br>0.0 0.0<br>0.0 0.0<br>0.0 0.0<br>0.0 0.0               | 57 153.63<br>554 0.663<br>0.0<br>023 1.023<br>733 1.664                   | 22 150.47<br>034 0.049<br>0.04 1.004                                              | 17 150.54<br>0.24 0.36<br>0.05<br>196 0.95<br>11.26                                                                 | 151.04<br>12.025<br>0.025<br>0.03<br>0.03<br>0.045<br>0.045                                     | 6.002 C.016<br>0.00 0.0<br>0.00 0.0<br>0.977 0.977                                                                          | 151.72<br>105 00.016<br>173 0.970<br>154 0.232                                                                                     |
| 72 151.23<br>0013 0.377<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0 | 95 151.57<br>C20 G.554<br>O.0 G.554<br>C21 1.023<br>562 1.733             | 29 152.22<br>33 0.033<br>6 0.08<br>1.034<br>1.113                                 | 63 152.67<br>044 0.024<br>096 0.996<br>315 0.712                                                                    | 61.54 152.96<br>-0.047 C.C12<br>0.0 0.0<br>0.985 0.945<br>-1.389 0.345                          |                                                                                                                             | 159.13 153.13<br>-0.046 -0.005<br>0.070 0.970<br>-1.374 -0.154                                                                     |
| 192.83 160.72<br>-0.210 0.013<br>0.0 C.0<br>1.039 1.039<br>-6.224 0.374                     | 106.02 102.95<br>-0.142 -C.C20<br>0.0 0.0<br>1.023 1.C23<br>-5.940 -0.502 | 140, 20 163, 29<br>-0.15 3 -0.03e<br>0.0 (.6<br>1,000 1,008<br>-4,544 -1.079      | 174.86 162.63<br>-0.129 -0.044<br>0.0 C.9<br>C.996 0.996<br>-1.816 -1.315                                           | 70.49 161.54<br>0.00 -0.047<br>0.00.00<br>0.985 0.985                                           | 166.97 160.32<br>- C.Cv3 - C.047<br>0.0 0.0<br>0.977 0.977<br>- 2.761 - 1.465                                               | 164.14 159.13<br>-0.081 -0.04<br>6.0<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3<br>6.3                         |
| 158.30 192.<br>-0.249 -0.<br>0.0<br>1.039 1.<br>-7.354 -6.                                  | 184,79<br>-0.206<br>-0.30<br>1.92<br>-6.045                               | 162.38 160.<br>0.0 0.0<br>1.308 1.                                                | 176. 12 174.<br>-0. 139 -0.<br>0.00 0.0                                                                             | 171.52<br>170.<br>10.116 - 1.<br>10.985 0.0<br>1.435 - 1.                                       | 167.69 166.<br>-0.054 -C.<br>C.C. U.977 0.                                                                                  | 164.66<br>-0.034 -0.0<br>0.0 0.0<br>0.970 0.0                                                                                      |
| 200.52<br>-0.124 -0<br>6.0<br>1.339 1                                                       | 3 PASS<br>196.35 184<br>0.250 -0<br>1.023 1                               | 146.33 142<br>-0.146 -0<br>0.0<br>1.308 -1                                        | 176.93 176.00<br>0.00<br>0.990<br>0.990                                                                             | 171.29 171<br>-6.126 -0<br>0.30<br>0.985<br>-1.601 -1                                           | 3 PASS<br>164.96 167<br>-0.107 -0<br>0.977 0                                                                                | 3 PASS<br>165.57 164<br>-0.091 -0<br>0.0<br>0.770 C                                                                                |
|                                                                                             |                                                                           | 146.02 14<br>-0.206<br>-0.206<br>-1.006                                           | 2 30                                                                                                                | 7 0 7                                                                                           | 0 40                                                                                                                        | 7 0 2                                                                                                                              |
| 217.92<br>-0.387<br>6.0<br>1.039<br>-11.445                                                 | 11-PASS<br>201.12<br>-6.285<br>0.3<br>1.023                               | 142.47<br>-0.218<br>-0.218<br>-1.008<br>                                          | 18 182.01 180.94 180.02 006 -0.174 -0.171 -0.16 010 0.0 0.0 010 0.0 010 0.0 010 0.0 010 0.0 010 0.0 010 0.0 010 0.0 | IMPOLVE AULTI-FASS EFFECT<br>016 -0.143 -0.116 -0.13<br>716 0.0 0.0 0.0<br>945 0.945 0.945 0.94 | INVOLVE RULTI-PASS LFFECT<br>210 -0.117 -0.113 -0.11<br>716 -0.0 0.0 0.0<br>717 0.977 0.977 0.97<br>812 -3.467 -3.363 -4.27 | LEWOLVE MULTI-PASS EPPECT<br>55 166.64 166.24 165.97<br>31s -0.099 -0.095 -0.09<br>716 6.970 0.970 6.97<br>744 -2.905 -4.412 -4.70 |
| 222.96<br>-0.423<br>0.0<br>1.039                                                            | 203.47<br>-0.305<br>0.0<br>1.023<br>-9.014                                | INVOLVE MULTI-PASS 227 -0.229 -0.418 716 0.0 0.0 717 0.04 1.004 1.004 1.004 1.004 | 182.01<br>-0.174<br>0.094<br>-5.244                                                                                 | 175.38<br>-0.143<br>0.0<br>0.985<br>-4.230                                                      | 173.42<br>-0.117<br>0.0<br>0.977                                                                                            | 166.64<br>-3.093<br>0.0<br>0.970<br>-2.945                                                                                         |
| 47:-3                                                                                       | 501-3                                                                     | 311-3                                                                             | 3 4 2 5                                                                                                             | 78 152.39<br>6.016<br>-4.716<br>140.803                                                         | 20495                                                                                                                       | 30473                                                                                                                              |
| TERPEATURE<br>BLCM, STRAIN<br>PLASTIC STRAIN<br>TCTAL STRAIN<br>STRESS                      | TIME 430.00 TEMPERATURE RECH. STRAIM PLASTIC STRAIM STRESS                | TEMPERAPHER HELL STRAIN PLASTIC STRAIN TOTAL STRAIN STRAIN STRAIN STRAIN          | TLNP-24A FURE RECU. SIMBLA PLANIC SIMBLA FOTAL SEMBLE STRASS                                                        | TERPERTURE MECH. STRAIM PLASTIC STRAIM TOTAL JIMAIM STREIS                                      | TIME 400.00 TEMPERATURE ALCH STRAIN PLAISE STRAIN TOTAL STRAIN STRESS                                                       | TIME 450.30 TENERALUE FECUL STAIN PLASTIC TRAIN TOTAL STAIN STRESS                                                                 |

THIS PACE IS BEST QUALITY FLACTIONER.
FROM COFY FLACE LIBE TO DDC

| \$39.03                                                                 | 1410                                        | 141                                        | INVOLVE BULTI-PASS EPPECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | THEET                                      | 3 PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
|-------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------------|--------------------------------------------|--|
| TEXPEDATUE:<br>BECH. SIRALN<br>PLASTIC STRAIN<br>FOTAL SIRALN<br>STREES | 2000                                        | 20.00.02                                   | 16.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50 | 16.1.21<br>-0.080<br>0.0<br>0.0<br>-2.386  | 162.9h<br>-6.07u<br>0.0<br>0.0<br>0.0<br>-2.129 | -6.074<br>-0.94<br>-2.190                  | 16.09<br>-6.071<br>-2.113                  | 158.045                                    | 6.964                                      | 151.29<br>0.00<br>0.00<br>1.500<br>1.000    | 150.73<br>0.0<br>0.0<br>0.964<br>0.150     |  |
| TINE \$50.06                                                            | 2 1                                         | 11.                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            | 3 PASS                                          |                                            |                                            | 167.61                                     | 25                                         | 4 151                                       | 15.021                                     |  |
| ALCH. STALLS FLASTIC STALLS TOTAL STRALS STRESS                         | 36.55                                       | 7007                                       | 2.0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2000                                       | -2.054                                          | 2000-                                      |                                            | -1.238                                     | 6.959                                      | 2000                                        |                                            |  |
| TIEL . 433.30                                                           | CHAN                                        | LVE NU                                     | SERVITOR NULTI-PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EFFECT                                     | 3 PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
| TERPESATUR?<br>RECH. 572AIN<br>PLASTIC 578AIN<br>TOTAL SINAIN<br>STRESS | 1513<br>0.000<br>-4.710<br>(.955<br>140.181 | 159. ey<br>-0. 0 e<br>0. y 55<br>-1. y 12  | 159.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 159.40<br>-0.063<br>0.0<br>0.955<br>-1.874 | 159.24<br>-0.062<br>3.0<br>0.955<br>-1.041      | 158.84<br>-0.059<br>0.955<br>-1.759        | 158.60<br>-0.058<br>0.0<br>0.955<br>-1.712 | 156.24                                     | 152.74<br>-0.018<br>6.6<br>0.955<br>-0.529 | 151.37<br>-0.038<br>0.05<br>0.955<br>-C.243 | 1561<br>-0.00-<br>0.955<br>-0.130          |  |
| TIRL= 650.03                                                            | 1840                                        | LVE KU                                     | INVCLVE KULTI-PASS EFFECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EFFECT                                     | 3 PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
| TEMPERATURE<br>NECK. SEALL<br>PLACTIC STRAIN<br>TOTAL SEALL<br>STREES   | 150.07                                      | 158.29<br>-0.059<br>0.0<br>3.952<br>-1.741 | 158.17<br>-0.058<br>0.0<br>0.952<br>-1.717                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 158.06<br>-0.657<br>0.0<br>C.952<br>-1.695 | 157.93<br>-6.656<br>3.3<br>0.952<br>-1.669      | 157.62                                     | 157.43                                     | 155.53<br>-0.043<br>0.952<br>-1.143        | 152.61                                     | 151.37<br>-0.011<br>0.0<br>0.952<br>-0.316  | 154.45<br>-0.064<br>0.952<br>-0.231        |  |
| FIRE 10.60                                                              | INVO                                        | 74.7                                       | INVOLVE AULTI-PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BPFECT                                     | 3 PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
| TPRESSENT STATE BECH. STATE STATE STATE STATE STATE STATE               | 150.63                                      | 157.14<br>-0.05#<br>-0.942                 | 157.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 157.C0<br>-0.053<br>0.0<br>0.949<br>-1.564 | 156.69                                          | 156.64                                     | 156.49<br>-0.049<br>0.949                  | 154.92<br>-0.038<br>0.0<br>0.949<br>-1.143 | 52.44                                      | 151.35<br>-0.614<br>6.9<br>-0.414           | 153.47<br>-C.011<br>0.0<br>0.949<br>-0.322 |  |
| FIRE- 750.00                                                            | 1840                                        | UN 3V1                                     | INVOLVE AULTI-PASS EPPECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EPPEC1                                     | J PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
| TEMPLEATURE<br>ELCH. STPALA<br>PLASTIC SEALM<br>TOTAL SEPALK<br>STRISS  | 156.02                                      | 156.29<br>-2.053<br>0.3<br>6.946<br>-1.493 | 156.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156.14<br>-0.049<br>0.0<br>-0.946          | 156.06<br>-0.349<br>0.3<br>6.346                | 155.85<br>-0.947<br>0.946<br>-1.402        | 155.72<br>-0.046<br>0.946<br>-1.177        | 154.42<br>-0.037<br>6.0<br>0.946           | 152.24<br>-0.323<br>0.3<br>0.946<br>-0.683 | 151.32                                      | 150.65                                     |  |
| TIME- 433.00                                                            | CART                                        | LVE AU                                     | INVOLVE RULTI-PASS EFFICT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FFFC1                                      | 3 PASS                                          |                                            |                                            |                                            |                                            |                                             |                                            |  |
| TEMPLENTUSE<br>MECH. STRNIS<br>PLASTIC SCRAEN<br>POTAL STRAIN<br>SIRESS | 152.31<br>-0.003<br>-4.700<br>137.620       | 155.57<br>0.047<br>1.464                   | 155.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 155.46<br>-0.647<br>0.344<br>-1.164        | 155.39                                          | 155.21<br>-3.345<br>0.0<br>0.044<br>-1.114 | 155.13<br>-(.644<br>-1.312                 | 151.99                                     | 152.13                                     | 5.5.5<br>5.5.5<br>5.5.6<br>5.5.6            | 150.93                                     |  |
|                                                                         |                                             |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                 |                                            |                                            |                                            |                                            |                                             |                                            |  |

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| 10.00   15.02   150.35   150.35   150.45   150.45   150.40   150.35   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150.25   150   | INE- 450.00                                                        | DART .   | TRAOFAE WAT                         | BULTI-PASS | KPPECT                               | 3 PASS |                                   |        |         |        |                                      |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------|-------------------------------------|------------|--------------------------------------|--------|-----------------------------------|--------|---------|--------|--------------------------------------|---------------------------------------------------------------|
| 130.00 156.56 156.51 156.47 156.28 156.20 156.24 151.48 151.48 151.49 151.29 150.50 156.56 156.51 156.47 156.28 156.20 156.24 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 151.48 15 | ENFERATURE<br>ECH. STRAIN<br>LASTIC STRAIN<br>OTAL SIRAÍA<br>TRESS | 37933    | 155.02<br>-2.045<br>0.943<br>-1.344 | 15.36      | 154.91                               |        | 154.69                            |        |         |        |                                      | 35.55<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00 |
| 130.00 194.56 194.51 194.27 154.17 154.28 155.24 155.24 151.24 151.24 151.25 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 152.24 15 | FINE 406.00                                                        | DART     | 100 3470                            | T1-PASS    | RPPECT                               | J PASS |                                   |        |         |        |                                      |                                                               |
| STATE   STAT   | ENFERRATUSE<br>ECH. SIMELN<br>LASTIC STRAIN<br>OTAL STRAIN         | 150.00   | 15.55<br>1.25.51<br>1.25.51         | 15.55      | 154.17<br>-0.043<br>-0.941<br>-1.271 |        | 154.28<br>-0.041<br>0.0<br>-1.232 | 154.20 |         |        | 151.23<br>-0.021<br>-0.941<br>-0.484 | 150.85<br>-0.018<br>0.6<br>0.981                              |
| 153.00 154.19 154.15 154.11 159.00 153.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IAC. 950.33                                                        | 04.87    | 108 747                             | TI-PASS    | RPECT                                | J PASS |                                   |        |         |        |                                      |                                                               |
| 15.00   15.13   154.14   154.00   151.94   151.13   151.14   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151.15   151   |                                                                    |          |                                     |            |                                      |        |                                   |        |         |        |                                      |                                                               |
| INVOLVE   RULTI-PASS   EFFECT   1 PASS   150.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00     | ENPERATURE<br>Ecd. SCHAIN                                          | 152.00   | 154.19                              | 154.15     | 154.11                               | -      | 153.94                            | 153.87 | _       | 151.77 | 151.26                               | -                                                             |
| 0.940 0.990 0.940 0.940 0.940 0.940 0.940 0.940 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990 0.990  | LASTIC STRAIB                                                      |          | 9.0                                 | 2.5        |                                      |        | 0.0                               | 0.0    |         |        |                                      |                                                               |
| 180.LV   151.9V   151.46   151.62   151.67   151.60   151.67   151.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OTAL SCHALB                                                        |          | 0.943                               | -1.241     |                                      |        | -1.179                            |        |         |        |                                      |                                                               |
| 150.00   151.90   151.64   151.02   151.14   151.67   151.61   152.90   151.67   151.22   -2.322   -2.314   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -3.041   -   | INE- 1090.03                                                       | DART     | TON ZATI                            | TI-PASS    | EFFECT                               | J PASS |                                   |        |         |        |                                      |                                                               |
| -0.314 -3.041 -3.141 -0.040 -0.040 -0.019 -0.019 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0.014 -0 | EAPPEA PHON                                                        | 150.00   | 153.90                              | 151.46     | 151.82                               | 151.14 |                                   | 151.60 | -       | 151.67 | 151.22                               | 150.47                                                        |
| 139.464 -1.219 -1.211 -1.204 -1.112 -1.159 -1.017 -0.189 0.919 139.464 -1.219 -1.211 -1.204 -1.112 -1.159 -1.017 -0.189 0.919 139.464 -1.219 -1.211 -1.204 -1.112 -1.159 -1.017 -0.189 0.919 139.464 -1.219 -1.211 -1.204 -1.112 -1.159 -1.017 -0.189 0.919 130.36 153.90 153.46 153.82 153.74 153.67 153.60 152.90 151.67 151.22 -1.019 -0.019 0.919 0.919 0.919 0.919 0.919 139.469 -1.219 -1.211 -1.204 -1.195 -1.172 -1.159 -1.017 -0.769 -0.017 139.469 -1.219 -1.211 -1.204 -1.195 -1.172 -1.159 -1.017 -0.769 -0.017 139.469 -1.219 -1.211 -1.204 -1.195 -1.172 -1.159 -1.017 -0.769 -0.017 130.00 153.90 153.86 153.82 153.74 153.67 153.60 152.90 151.67 151.22 -0.024 -0.039 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.910 0.9 | ECH. SCHALS                                                        | -0.014   | -0.04                               | -3.341     | -0.040                               | -0.040 |                                   |        |         | -0.036 | -2.323                               | -3.623                                                        |
| 139, 0.919 1.219 1.219 0.919 3.419 3.419 0.419 3.919 3.919 3.919 1.919 0.919 1.219 1.209 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1.219 1 | LASFIC STRAIN                                                      | -4.760   | 3.3                                 | 0.0        | 0.0                                  | 0.0    |                                   |        |         | 0.0    | 6.5                                  | 0.0                                                           |
| 150.3C 151.93 153.46 153.62 154.74 153.67 153.63 152.90 151.07 151.22 150.30 153.90 151.07 151.22 150.30 153.46 153.62 153.63 153.63 153.63 153.90 151.07 151.22 150.30 153.90 153.46 153.80 153.40 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0.039 0. | OTAL SCHALW                                                        | 3.939    | 0.979                               | 1.919      | 0.919                                | 3.434  |                                   |        |         | 3.919  | 3.439                                | 2.93                                                          |
| 150.3C 151.93 153.46 153.62 153.74 153.67 153.63 152.90 151.07 151.22 150.3C 153.90 153.46 153.82 150.3C 153.90 153.46 153.82 153.46 153.82 150.3C 153.90 153.46 153.82 150.3C 153.90 153.46 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 153.40 15 | THESS                                                              | 177. 60  | 1.6                                 |            |                                      | 61.13  |                                   |        |         | -0.70  |                                      |                                                               |
| 156.3C 153.93 153.86 153.82 153.74 153.67 153.63 152.99 151.67 151.22 -0.014 -0.044 -0.044 -0.049 -0.019 -0.019 -0.034 -0.024 -0.024 -0.044 -0.044 -0.044 -0.049 -0.019 -0.034 -0.024 -0.024 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0.049 -0 | 148- 1030.00                                                       | DART     | TAE NOT                             | 11-PASS    | BPFECT                               | 1 PASS |                                   |        |         |        |                                      |                                                               |
| 19.619 -3.081 -0.081 -0.089 -0.039 -0.039 -0.034 -0.032 -0.023 -0.034 -0.032 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0.034 -0 | KAPE BA TURE                                                       | 156.30   | 153.93                              | 153.46     | 153.82                               | 153.74 | 153.67                            |        | 152.90  | 151.67 | 151.22                               |                                                               |
| -4.704 6.4 6.4 6.4 6.4 6.3 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ECH. STRAIN                                                        | -6.614   | -0.0                                | -0.0-      | -0.040                               | -2.00  | -0.039                            |        | -0.03   | -3.046 | -0.02                                |                                                               |
| 199.469 -1.219 -1.211 -1.234 -1.195 -1.172 -1.159 -1.017 -0.769 -0.513  199.469 -1.219 -1.211 -1.234 -1.195 -1.172 -1.159 -1.017 -0.769 -0.513  156.06 151.90 153.86 153.82 151.76 153.60 152.90 151.67 151.22 -0.024 -0.030 -0.050 -0.050 -0.049 -0.649 -0.649 -0.649 -0.659 -0.010 0.910 0.910 0.910 0.910 0.910 0.913 0.913 0.913 0.910  139.147 -1.502 -1.494 -1.404 -1.477 -1.455 -1.442 -1.360 -1.051 -6.966  IMVOLVE HULTI-PASS ZFFECT 4 PASS  156.06 153.90 153.86 153.82 153.78 153.60 152.90 151.67 151.22 -0.344 -0.050 -0.050 -0.015 -0.015  -0.24 -0.050 -0.050 -0.050 -0.050 -0.044 -0.044 -0.044 -0.015  199.147 -1.502 -1.494 -1.486 -1.477 -1.455 -1.442 -1.130 -1.051 -0.100  199.147 -1.502 -1.494 -1.486 -1.477 -1.455 -1.442 -1.130 -1.051 -0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LASTIC STRAIN                                                      | -4.700   | 0.0                                 | 6.5        | 0.0                                  | ?.     |                                   |        | 0.0     | 6.3    | 0.0                                  |                                                               |
| 180.0C 153.90 153.86 153.82 153.76 153.60 152.90 151.67 151.22 -0.024 -0.050 -0.050 -0.050 -0.049 -0.064 -0.004 -0.035 -0.050 -0.050 -0.049 -0.064 -0.004 -0.035 -0.051 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930  | OTAL SCHALM                                                        | 139.469  | -1.219                              | -1.21      | -1.204                               |        | -1.172                            |        | -1.017  | -0.769 | -0.677                               |                                                               |
| 156.0C 153.90 153.86 153.82 151.76 153.67 153.60 152.90 151.67 151.22 -0.024 -0.050 -0.050 -0.050 -0.009 -0.044 -0.035 -0.035 -0.035 -0.050 -0.040 -0.035 -0.035 -0.035 -0.050 -0.030 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.930 0.93 |                                                                    | 1890     | TAE NOT                             | FI-PASS    |                                      | + FASS |                                   |        |         |        |                                      |                                                               |
| -0.024 -0.050 -0.050 -0.050 -0.009 -0.004 -0.013 -0.013 -0.013 -0.014 -0.015 -0.015 -0.050 -0.010 -0.015 -0.015 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0.010 -0 | ENPERATURE                                                         | 156.     | 153.90                              | 153.86     | 153.82                               | _      |                                   |        | 152.90  | 151.67 |                                      | 153.47                                                        |
| INVOLVE MULTI-PASS ZEPECT 4 PASS  139.147 -1.502 -1.494 -1.406 -1.477 -1.455 -1.442 -1.360 -1.051 -6.960  139.147 -1.502 -1.494 -1.406 -1.477 -1.455 -1.442 -1.360 -1.051 -6.960  156.00 153.90 153.80 153.82 153.78 153.67 153.60 152.99 151.67 151.22 -0.324 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 -0.050 | ECH. STRAIN                                                        | 9        | -0.050                              | -4.050     | -0.050                               |        |                                   |        | -0.0    | -6.33  |                                      | -0.03                                                         |
| INVOLVE HULTI-PASS ZEPECT 4 PASS  156.0C 153.9U 153.8D 153.8Z 153.7B 153.6D 152.9D 151.67 151.2Z -0.3Z | LASKIC STRAIB                                                      | •        |                                     | 9.0        | 3.6                                  |        |                                   |        |         | 2.5    |                                      | 200                                                           |
| IMVOLVE MULTI-PASS ZPFECT 4 PASS 156.0C 153.90 151.8b 153.8z 153.7d 153.67 153.60 152.90 151.67 151.220.24 -0.050 -0.050 -0.050 -0.050 -0.044 -0.044 -0.045 -0.050 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -       | TRESS                                                              | =        | -1.502                              | -1.494     | -1.00                                |        |                                   |        |         |        |                                      | -0.00                                                         |
| 156.00 153.90 153.80 153.82 153.70 153.67 153.60 152.90 151.67 151.220.24 -0.950 -0.050 -0.050 -0.050 -0.044 -0.044 -0.044 -0.044 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    | INVO     | TAE NOT                             | TI-PASS    | 2PFECT                               | 4 PASS |                                   |        |         |        |                                      |                                                               |
| 13.10 13.19 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18 13.18  |                                                                    | ***      |                                     |            |                                      | 73     |                                   |        | 00 . 30 |        |                                      |                                                               |
| -4.700 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EAPEPA FURE                                                        | 156.00   |                                     | 153.86     | 133.02                               | 133.10 | -0.04                             |        | -0.0    | 23.415 | 3.41                                 |                                                               |
| 6.944 6.943 6.946 6.946 6.950 6.950 6.936 6.930 6.940 6.940 6.10 0.110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LASTIC STRAIN                                                      | -4.700   |                                     | 0.0        | 0.0                                  |        | 0.0                               |        | 0.0     | 6.5    | 3                                    |                                                               |
| 139,187 -1,502 -1,434 -1,486 -1,477 -1,455 -1,442 -1,333 -1,551 -0,360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CTAL STPAIN                                                        | 6.930    |                                     | 6.430      | 0.9.10                               | 6.930  | 0.930                             |        | 6.913   | 0.,10  | 0.110                                |                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IRES                                                               | 139, 187 |                                     | -1.434     | -1.486                               | -1.477 | -1.455                            |        | -1. 25  |        | -0.20                                |                                                               |

THIS PACE IS BEST QUALITY FRACTION BLAFFORM ONEY FURBISHED TO LEDG

|            | .0.036<br>.0.036<br>.0.930<br>.0.868                     |                           | 150.0<br>-0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0   |                           | -5.010<br>9.0<br>0.910<br>-0.448                                        |            | 155.47<br>-0.940<br>-0.946                                            |                           | 150.87<br>-0.630<br>6.0<br>0.430<br>-0.867                              |             | 50.47<br>-0.030<br>0.0<br>0.930<br>-0.467                                                             |                    | -6.029                                        |
|------------|----------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|------------|-----------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
|            | 151.24 15<br>-C.932<br>-0.936                            |                           | 151.24<br>10.632<br>0.930<br>-0.960                                     |                           | 251.22<br>-0.012<br>-0.01<br>-0.913                                     |            | 151.22<br>-0.032<br>-0.960                                            |                           | 151.22<br>-0.032<br>-0.90<br>-0.960                                     |             | 151.22<br>-0.032<br>0.930<br>-0.960                                                                   |                    | 151.22<br>-6.031<br>- 16.030                  |
|            | 151.47<br>-0.335<br>0.930<br>-1.351                      |                           | 151.67<br>6.50<br>16.91<br>1.02.1-                                      |                           | 151.e7<br>-0.135<br>6.3<br>0.933                                        |            | 151.67<br>-0.035<br>-0.0433<br>-1.351                                 |                           | -6.335<br>-6.335<br>-6.6<br>0.430<br>-1.051                             |             | 151.67 15<br>-0.015<br>0.910<br>-1.051                                                                |                    | 151.67 15                                     |
|            | 152.90                                                   |                           | 152.40                                                                  |                           | 152.90<br>-0.044<br>-0.930<br>-1.133                                    |            | 152.90<br>-3.044<br>5.53<br>-1.330                                    |                           | 152.93<br>-0.04<br>0.930<br>-1.300                                      |             | 152.93<br>-0.044<br>3.0<br>0.930<br>-1.299                                                            |                    | -0.34                                         |
|            | 151.60                                                   |                           | 151.60<br>-0.04<br>0.913<br>-0.913                                      |                           | 151.60                                                                  |            | 151.60                                                                |                           | 153.60<br>-0.048<br>0.0<br>0.133                                        |             | 153.60                                                                                                |                    | 153.60                                        |
|            | 153.67                                                   |                           | 153.67<br>-0.049<br>0.935<br>-1.455                                     |                           | 153.67<br>-3.049<br>0.0<br>0.930<br>-1.455                              |            | 151.67                                                                |                           | 153.67                                                                  |             | 153.67                                                                                                |                    | 153.07                                        |
| . PASS     | 153.74                                                   | * P155                    | 153.74<br>-5.050<br>00.00<br>10.430                                     | 4 FASS                    | 153.78<br>-0.150<br>0.5<br>1.410                                        | # PASS     | 153.78                                                                | . PASS                    | 151.78                                                                  | # PASS      | 153.74                                                                                                | 4 PA 35            | 151.76                                        |
| trr ter    | 151.82                                                   | PPECT.                    | 153.82<br>-0.050<br>0.0<br>0.933<br>-1.486                              | EPPECT.                   | 153.82                                                                  | FFECT      | 153.62                                                                | HFEC1                     | 153.82<br>-0.450<br>0.930<br>-1.486                                     | BPFECT      | 153.82<br>-0.050<br>0.0<br>6.936                                                                      | EPPRCT             | -0.043                                        |
| RULTI-PASS | 151.46                                                   | INVOLVE AULTI-PASS EPFECT | 153.66                                                                  | INVOLVE RULTI-PASS EFFECT | 151.46                                                                  | MULTI-PASS | 151.86                                                                | INVOLVE KULTI-PASS BPPECT | 153.46                                                                  | MULTI-PASS  | 151.46                                                                                                | .TI-PASS           | 151.37                                        |
| CHUCLUE RU | 153.90<br>-0.050<br>0.930<br>-1.502                      | 107 3470                  | 153.90<br>-0.050<br>6.00<br>0.930<br>-1.502                             | DE NO                     | 153.90<br>-0.050<br>0.93<br>-1.502                                      | INCTAL MO  | 151.40<br>-0.050<br>0.910<br>-1.502                                   | TAK KNI                   | 153.90<br>-3.650<br>(.0<br>0.930<br>-1.502                              | INN JATOART | 151.92<br>-0.051<br>0.0<br>0.910<br>-1.507                                                            | INVOLVE BULTI-PASS | -9.051                                        |
| 181        | 150.00<br>-0.1.4<br>-4.700<br>19:10.1                    |                           | 130.224                                                                 | 11                        | 153.0¢<br>-0.32*<br>-4.700<br>-4.700<br>1.9.187                         | 9491       | 150.05                                                                | 1840                      | 15C.03<br>-0.024<br>-4.70C<br>0.910                                     | 200         | 156.49                                                                                                | 74.00              | -6.1.1                                        |
| 3.03       | TULL<br>CRAIN<br>SCRAIN<br>TRAIN                         | 7.03                      | TENPENATURE<br>NECH. STRAIM<br>PLASTIC SCRAIG<br>TOTAL STRAIM<br>STRESS | 0                         | TEXPERATURE<br>MECH. SCHAIN<br>PLASTIC STRAIN<br>FOTAL SCHAIN<br>SPILES | 5.30       | TENPERATURE<br>BECH. SEMAL<br>PLASTIC STAAL<br>TOTAL SERAL<br>STRESS  |                           | TURE<br>STRAIR<br>STRAIR                                                | 1.30        | TUBE<br>STEALE<br>STEALE                                                                              | 3                  | 14415<br>14415                                |
| TIRE.      | RECH. STRAIM<br>PLASTIC STRAIM<br>FOTAL STRAIM<br>STAESS | *111E                     | TENPERA<br>MECH. S<br>PLASTIC<br>TOTAL S<br>STRESS                      | TIRE.                     | TEMPERATURE<br>MECH. SCHALM<br>PLASTIC STRA<br>TOTAL STRALM<br>STRESS   | -7111      | TLNFEHATURE<br>RECH. SEMAIN<br>PLASTIC STAA<br>TOTAL SERALU<br>STRESS | -1611                     | TEMPERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TO'AL STRAIN<br>STRESS | TIRE-       | TERPUBLIC STRAIN PLASTIC STRAIN STREES | 11at-              | TEMPERATURE<br>NECES STARTS<br>PLASSIC STRAIN |

THIS PACE IS BEST QUALITY PRACTICABLE.
FROM COPY FUNEISHED TO DDC

| 1.1. ATOLIE MULIT-PASS EFFECT & PASS  1. ATOLIE MULIT-PASS EFFECT  | TIME 9.00   | 0411                                   |        | MULTI-PASS | _      |         |        |        |        |        |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|--------|------------|--------|---------|--------|--------|--------|--------|--------|--------|
| 2500.00 159.19 154.71 154.59 154.77 154.60 152.90 155.29 151.67 151.22 1755.50.00 159.19 154.71 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.59 154.77 154.57 154.77 154.57 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154.77 154. |             |                                        |        | 3.33       | 1000   |         |        |        | 9000   | 5.00   |        | 00.00  |
| 2500.00 169.10 154.71 152.90 152.73 153.67 153.60 152.50 151.67 151.22 17.55 -0.045 0.006 0.000 0.000 0.007 0.007 0.007 0.007 0.006 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000  | 19.33       | 170447 .                               | TON 3A | TI-PASS    | EPPECT | 4 PASS  |        |        |        |        |        |        |
| INVOLVE BULTI-PASS LEFECT + PASS  13500-30 1944-89 158-65 158-16 153.67 1531-60 152.90 1531-67 1531-22 177.565 -0.232 C.C66 0.C69 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0. |             | 2500.00<br>-17.575<br>-17.575<br>1.350 | 20000  |            | 151.90 | -       |        | 153.60 |        | -      | =      |        |
| 2500.30 194.89 156.65 154.14 153.62 153.67 153.60 152.90 151.67 151.22 17.255 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049  | 3.          | 1704#1                                 | 708 24 | TI-PASS    | THEFT  | + PASS  |        |        |        |        |        |        |
| 2500.30 194.89 152.65 158.12 153.67 153.60 152.90 153.67 151.22 17.550 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                        |        |            |        |         |        |        |        |        |        |        |
| The color of the color   Col   |             |                                        |        |            |        |         |        |        |        |        |        |        |
| 18565 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | _                                      | 69.06  |            |        | =       | -      |        | -      | -      | -      | 2      |
| 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000  | :           |                                        | 7      |            |        |         |        |        |        |        |        |        |
| 1890LE BULIL-RASS LFFLT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                        | 940    |            |        |         |        |        |        |        |        |        |
| ### ### #### #### ####################                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                        | -6.833 |            |        |         |        |        |        |        |        |        |
| 17.550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8           | 110401                                 | 104 31 |            | LILLIA | # PASS  |        |        |        |        |        |        |
| -17.550 -0.510 0.047 0.087 0.095 0.397 0.097 0.102 0.110 0.113 -17.550 -0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TENFERATURE |                                        |        |            | 155.13 | 153.92  | 153.67 | =      | 154.90 | 151.67 | 151.22 | 150.87 |
| -17.550 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | -17.550                                |        |            | 0.087  | 3.095   | 0.347  |        | 6.102  | 6.110  | 0.113  | n. 116 |
| 1.275 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075 1.075  |             | -17.550                                | 0.0    |            | 0.0    | 3.5     | 0.0    |        | 0.0    |        | ::     | 0.0    |
| LAYOLUE MULTI-PASS EFFECE & PASS  4406. 7C 282.00 16.07 156.75 154.19 153.08 153.00 152.90 151.07 151.22  -16.007 -0.00 0.00 0.00 0.00 0.00 0.00 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 0.0                                    | 15.267 |            | 2.575  | 2.821   | 2.672  |        | 3.620  |        | 3.366  | 3.445  |
| 4456.7C 282.00 162.47 156.75 154.16 153.60 152.90 151.67 151.22 -16.1017 -0.061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5           | 170AKT                                 | 108 34 | 11-PASS    | EFFECE | . PASS  |        |        |        |        |        |        |
| -16.007 -0.001 -0.005 0.0012 0.0032 0.0037 0.0045 0.0040 -17.550 0.00 0.00 0.00 0.00 0.00 0.00 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                        | 92.00  |            | 156.75 | 154.10  | 153.08 |        | 152.90 | =      |        | 150.87 |
| -17.559 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | -                                      | -0.0-1 | -0.366     | 0.011  | 0.029   | 0.032  |        |        |        |        |        |
| 1601 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1.011 1 | =           | -17.550                                | 0.0    |            | 0.0    | 3:      | 0.0    |        |        |        |        |        |
| ENVOLUE MULTI-PASS EPPECT & PASS  2500.30 314.41 177.37 159.41 155.30 153.69 153.60 152.90 151.67 151.22 -17.520 -1.027 -2.037 0.040 0.03 -17.520 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             | 0.177 -                                | 1.011  | 1.91       | 0.319  | 1.011   | 1.011  |        |        |        |        |        |
| 2500.00 314.41 177.37 159.41 155.00 153.69 153.60 152.90 151.67 151.22 -17.520 -1.027 -5.037 0.0647 0.117 0.126 0.127 0.132 0.140 0.143 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1. | 3           | IBVOL                                  | 10H NA |            | EFFECT | PASS    |        |        |        |        | •      |        |
| 17.520 -1.027 -1.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                        |        | 177.37     | 159.41 | -       | 5      | 153.60 |        | =      |        | 150.87 |
| 1.005 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105 1.105  |             | -                                      |        | 0.0        | 0      |         |        |        |        |        |        |        |
| 2530.30 337.77 188.47 163.16 156.05 153.73 153.61 152.93 151.67 151.22 1-17.509 -1.191 -0.103 0.073 0.127 0.134 0.144 0.151 0.151 0.154 17.509 -1.191 -0.103 0.073 0.151 0.151 0.154 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                        | 1.105  | -1.392     | 2.588  |         |        |        |        |        |        | 1.105  |
| 25.30.30 337.77 1881.47 163.16 156.05 153.73 153.61 152.93 151.67 151.22 -17.509 -1.191 -0.103 0.073 6.121 3.137 0.138 3.143 7.151 9.154 -17.509 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 90          | TRACEL                                 | TE AUL | 11-PASS    | EFFECT | # PASS  |        |        |        |        |        |        |
| -17.509 -1.191 -0.103 0.073 6.121 0.137 0.138 0.148 7.151 0.154 -17.509 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                        |        |            | 163.16 | 156.05  | 153.73 |        | 152.93 | 151.07 | 151.22 |        |
| 1.116 1.116 1.116 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110 1.110  |             |                                        | -      |            | 0.013  | 6.121   | 3.137  |        | 3. 143 | 15.15  | 9. 154 |        |
| 0.0 -14.616 -1.343 2.104 J.013 4.00% 4.109 4.253 4.562 4.594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                        | 1.116  |            | 1.16   | - · · · |        |        |        |        |        |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                        | 14.616 |            | 2.103  | 7.617   | 4.00.  |        | 4.251  | 4.564  | ** 234 |        |

THIS PACE IS BEST QUALITY PRACTICARIA FROM COLY FERBISHED TO DDC

|                   | 55.00                                                                   |                           | 50.67<br>0.68<br>1.08<br>2.492                                                                             |                           | 153.67<br>0.586<br>0.0<br>1.047<br>2.613                                     |                           | 2.031                                                                 |                           | 156.87<br>6.043<br>0.0<br>1.052<br>2.759                            |                           | 150.87<br>C.699<br>0.0<br>1.656<br>2.942                                       |                           | 150.47      |
|-------------------|-------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------|---------------------------|-------------|
|                   | 22.22                                                                   |                           | 51.22 18<br>6.641<br>1.344<br>2.419                                                                        |                           | 151.22 15<br>6.085<br>6.6<br>1.047<br>2.541                                  |                           | 151.22<br>0.0<br>0.0<br>1.050<br>2.623                                |                           | 151.22 15<br>0.09<br>0.0<br>1.052<br>2.686                          |                           | 151.22 15<br>0.046<br>0.0<br>1.058<br>2.669                                    |                           | 151.22 15   |
|                   | 151.67<br>6.033<br>6.036<br>1.034<br>2.163                              |                           | 2                                                                                                          |                           |                                                                              |                           |                                                                       |                           |                                                                     |                           |                                                                                |                           | 67 151      |
|                   |                                                                         |                           | 151.67<br>10 6.070<br>13 1.643<br>79 2.324                                                                 |                           | 74 C.042<br>0.0<br>17 1.347                                                  |                           | =                                                                     |                           | 151.67<br>19 0.367<br>0.3<br>52 1.052<br>16 2.595                   |                           | 151.67<br>85 0.093<br>6.0<br>1.054<br>24 2.777                                 |                           | 151.67      |
|                   | 152.90                                                                  |                           | 152.93<br>6.010<br>1.043<br>2.019                                                                          |                           | 152.90                                                                       |                           | 152.93                                                                |                           | 152.90                                                              |                           | 152.93<br>0.0<br>0.0<br>1.056                                                  |                           | 152.91      |
|                   | 153.63                                                                  |                           | 153.65                                                                                                     |                           | 2.0.0                                                                        |                           | 151.76                                                                |                           | 153.8°<br>0.072<br>0.0<br>1.052<br>2.150                            |                           | 159.13                                                                         |                           | 168.70      |
|                   | 153.60                                                                  |                           | 153.91                                                                                                     |                           | 154.04                                                                       |                           | 154.67                                                                |                           | 155.14                                                              |                           | 165.41<br>0.0<br>0.0<br>1.054<br>-0.123                                        |                           | 180.26      |
| . PASS            | 57.5                                                                    | # PASS                    | 159.55                                                                                                     | + PASS                    | 62.61                                                                        | . PASS                    | 1.5.5.05<br>1.5.5.0<br>1.5.5.0<br>1.5.5.0                             | 4 8455                    | 168.02<br>-0.025<br>-0.0<br>-0.03<br>-0.737                         | * PASS                    | 201.56<br>-0.253<br>6.0<br>1.058<br>-7.475                                     |                           | 221.90      |
| EPPECT            | 1.000                                                                   | FFECT                     | 173.35<br>-6.071<br>0.0<br>1.043<br>-2.395                                                                 | IFFECT                    | 179.29                                                                       | EFFECT.                   | -0.14<br>-0.14<br>-0.09<br>-1.050                                     | EFFECT                    | 191.60                                                              | EFFECT                    | 236.06<br>-0.496<br>J.0<br>1.058                                               | EPPECT                    | 252.19      |
| MULTI-PASS EPPECT | 202.16                                                                  | LAVOLVE MULTI-PASS EFFECT | 10,483 -1,488 -0,139<br>12,107 0.0 0.0<br>1,643 1,643 1,043<br>1,643 1,643 1,043<br>16,519 -42,515 -10,017 | INVOLVE AULTI-PASS EFFECT | 171.67 222.37<br>-1.510 -0.411<br>0.0 0.0<br>1.047 1.047<br>1-43.904 -12.142 | INVOLVE NULTI-PASS EFFECT | 234.14                                                                | INVOLUE MULTI-PASS EFFECT | 246.65<br>-0.536<br>0.0<br>1.052<br>-15.436                         | INVOLVE RULTI-PASS EFFECT | -0.833                                                                         | INVOLVE AULTI-PASS EPPECT | 190.55      |
|                   | 151.94                                                                  | 101 34                    | 32.05.5                                                                                                    | .ve aut                   | 13.00                                                                        | 704 %AT                   | -1.5°<br>0.0°<br>1.055<br>1.750                                       | 708 321                   | 374.66<br>-1.564<br>0.0<br>1.652<br>-45.198                         | VE KUL                    |                                                                                | VE AUL                    | 319.09 2    |
| SATOLBE           | 50.55<br>50.55<br>50.55<br>50.55                                        | CAST                      | 5.55                                                                                                       | 1410                      | 25.27                                                                        | 7840                      | 1140.00 176.11 234.11                                                 | 1840                      | 1262.53<br>-9.546<br>-12.937<br>1.652<br>37.667                     | INAT                      | 276.55 163.49<br>-5.746 -1.446<br>-9.416 0.0<br>1.658 1.058<br>140.458 -41.882 | LWWI                      | 609.20      |
| 10.00             | TEMPLEATURE<br>RECH. STRAIG<br>PLASTIC STRAIG<br>TOTAL STRAIG<br>STAISS | 17.00                     |                                                                                                            | 30.81                     | TEMPERATURE<br>MECH. SIMAIN<br>PLASTIC STRAIM<br>TOTAL STRAIM<br>STRESS      | 19.05                     |                                                                       | 10.33                     | :                                                                   | 10.00                     | TENPENATURE<br>RECH: STRAIM<br>PLASTIC STRAIM<br>STAFES                        | 40.00                     | TEMPERAL BE |
| -1111             | TEMPERATURE<br>FECH. STRAIG<br>PLASTIC STRAIG<br>TOCAL STRAIG<br>STAESS | -1811                     | TEAPLINGUES BECH: STRAIN FLASTIC STRAIN TOTAL SCRAIN                                                       | .JEF.                     | TENPERAL<br>HECH. SI<br>PLASTIC<br>TOTAL SI<br>STRESS                        | -tur                      | TEMPLIATURE<br>NECH. STRALN<br>PLASILC STRA<br>TOTAL SIZALN<br>STRESS | 1134.                     | TENPUNATURE<br>MFC. SIRALS<br>PLASFIC SHA<br>TOTAL STRAIR<br>STRESS | -3HIT                     | TENPERATURE<br>NECH. STRAIG<br>PLASTIC STRAIG<br>TOTAL STRAIG                  | -717                      | TEMPERAL ME |

| STONET                                                                               | 176 BEL                                                                                                       | 255.60                                                                       | 230.47                             |                                              |                                            | =                                        | 151.67                                   |                                          | 150.47                                    |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|
| -2.516 -1.424<br>-7.546 -1.406<br>123.305 -31.461                                    | 1.02 1.04                                                                                                     | 20.0                                                                         | 11.135                             | 5.00                                         | 70-7                                       | 0.092<br>0.0<br>1.066<br>2.733           | 1.06.                                    | 9.00<br>1.036<br>1.036                   | 9.10¢<br>1.0¢<br>1.167                    |
| 18 40LVE                                                                             | INVOLVE BULTI-PASS EPPECT                                                                                     | HFECT                                                                        | . PASS                             |                                              |                                            |                                          |                                          |                                          |                                           |
| 12. 97 Jul. 74<br>-2. 17. 9. 9. 95<br>-2. 17. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. | 1.00-X                                                                                                        | 253.47 233.42<br>-0.42C -0.475<br>0.0 0.0<br>1.065 1.065                     | 55.55                              | - C. 227<br>- C. 227<br>- C. 227<br>- C. 227 | 1.00                                       | 351.25<br>0.095<br>0.0<br>1.665<br>2.663 | 151.67                                   | 151.22<br>0.00<br>1.025<br>1.076         | 150.67<br>0.106<br>0.0<br>1.645<br>J. 148 |
| TATOMAT                                                                              | INTOLUE MULTI-PASS AFFECT                                                                                     | . FFECT                                                                      | . PASS                             |                                              |                                            |                                          |                                          |                                          |                                           |
| -2.010 -0.061<br>-5.51 0.0<br>1 004 1.004<br>129.944 -25.223                         | 265.44 2<br>61 -0.709<br>28 -20.625 -                                                                         | 50.02<br>-0.594<br>6.0<br>17.480                                             | 233.61                             | 253.20                                       | 190.60<br>-0.170<br>0.0<br>1.064<br>-5.050 | 154.05                                   | 151.67                                   | 151.22 0.102 6.9                         | 150.87                                    |
| 3470491                                                                              | INVOLVE MALTI-PASS RFPECT + PASS                                                                              | RIPECT                                                                       | + PASS                             |                                              |                                            |                                          |                                          |                                          |                                           |
| 392. 33 2/4.57<br>-1.641 -5.776<br>-2.24 6.0<br>1.641 1.061                          | 254.17<br>-3.656<br>0.0<br>1.001<br>-19.287                                                                   | 245.37 231.77 2<br>-0.563 -0.45<br>0.0 0.0<br>1.661 1.661<br>-16.563 -13.720 | 231.77                             | 205.43                                       | 193.43<br>-0.196<br>0.0<br>1.061           | 2.00                                     | 151.67                                   | 6.3<br>6.3<br>1.061<br>2.936             | 156.87                                    |
| INVOLVE ABLTI-PASS KPFECT                                                            | BLTI-PASS                                                                                                     | KFFECT                                                                       | # PASS                             |                                              |                                            |                                          |                                          |                                          |                                           |
| -1.171 -0.704<br>-5.952 0.0<br>1.057 1.057<br>132.450 -40.444                        | 251.00 240.49 229.39 2<br>0.566 -0.531 -0.449<br>0.3 0.0 0.3<br>1.057 1.652 1.057<br>1-17.477 -15.652 -13.255 | 260.69<br>-0.531<br>0.0<br>1.052<br>-15.652                                  | 229.39<br>-0.469<br>-0.3<br>-1.255 | 236.75                                       | 195.82<br>-0.214<br>0.0<br>1.057<br>-6.113 | 155.41                                   | 151.68<br>6.092<br>0.0<br>1.057<br>2.747 | 151.22<br>6.095<br>0.0<br>1.957<br>2.839 | 150.47<br>0.09<br>1.657<br>2.911          |
| TRAOFAE H                                                                            | INVOLVE BULFI-PASS LPFECT                                                                                     | LPFECT                                                                       | 4 6153                             |                                              |                                            |                                          |                                          |                                          |                                           |
| -1, 144 -0.643<br>-5, 734 0.0<br>1,054 1.054<br>133, 645 -16.916                     | 26.50<br>50<br>50<br>05                                                                                       | 235.68 226.03<br>-0.540 -0.431<br>0.0 6.0<br>1.054 1.354                     | 226.03                             | 206.12<br>-0.289<br>0.0<br>1.054<br>-6.558   | 196.75<br>-0.223<br>0.0<br>1.054           | 156.49                                   | 151.64                                   | 151.22<br>0.092<br>0.0<br>1.054<br>2.734 | 150.47<br>5.09%<br>0.0<br>1.05%<br>2.866  |
| TRAOTAE                                                                              | INVOLVE BULTI-PASS LPPECT                                                                                     | LPPECT                                                                       |                                    |                                              |                                            |                                          |                                          |                                          |                                           |
| -0.488 -0.437<br>-5.130 G.0<br>1.036 1.036                                           | 219.20<br>17 -0.401<br>0.0<br>16 1.036                                                                        | 239.20 234.98<br>-0.401 -0.370<br>0.0 0.0<br>1.036 1.036<br>-11.028 -10.946  | 210.17                             | 1.336                                        | 194.02<br>-0.222<br>6.6<br>1.036           | 1.032                                    | 151.19                                   | 1.016                                    | 150.67                                    |

THIS PACE IS BEST QUALITY PRACTICALET.
FROM GOPY FUNESHED TO DDG

|              | 150.87                                                  |                           | 1.004                                                                 |                           | 150.40  | 0.632    | 0.0     | 0.436  |                          |               |              |                | 0.03    |                           | 150.93      | 0.0     | 0.348        |                           | 170      |              |                | 0.167  |                           | 151.61      | -5.001   | 3.563        |          |
|--------------|---------------------------------------------------------|---------------------------|-----------------------------------------------------------------------|---------------------------|---------|----------|---------|--------|--------------------------|---------------|--------------|----------------|---------|---------------------------|-------------|---------|--------------|---------------------------|----------|--------------|----------------|--------|---------------------------|-------------|----------|--------------|----------|
|              | 151.22                                                  |                           | 27.50                                                                 |                           | 161.12  | 6.029    |         | 0.655  |                          | 151.44        | 0.018        |                | 0.525   |                           | 151.54      | 0.0     | 0.973        |                           | 151.63   | 0.00         | 0.0            | 0.633  |                           | 151.70      | -0.335   | 200          | -0.133   |
|              | 5.00                                                    |                           | 52.70<br>6.032<br>0.003<br>0.003                                      |                           | 161.21  | 9.0.6    | 0.0     |        |                          | 153.52        | 0.00         |                | 0. 102  |                           | 153.66      | 0       | 6.973        |                           | 153.68   | 5.5          |                | 7.70   |                           | 153.62      | -0.01E   | 3.           | 16.00    |
|              | 50.00                                                   |                           | 10000                                                                 |                           | 161.63  |          | 3.0     | -      |                          | 162.50        | -0.05        |                | -1.735  |                           | 161.29      |         | -1.7         |                           | 160.10   | -6.057       | 0.0            | -1.647 |                           | 159.01      |          |              | 744.1-   |
|              | 167.62<br>-0.195<br>-5.768                              |                           | 3.000                                                                 |                           | 176.05  | -        | 0.0     |        |                          | 171.69        | -0.121       |                | -3.602  |                           | 164.17      |         | 0.973        |                           |          |              |                | -2.757 |                           |             | -        | 20.0         | 7/8.7-   |
|              |                                                         |                           | 5.00.4                                                                |                           |         |          |         |        |                          | 111.11        | -0.126       | 9.0            | -       |                           | 168.92      |         |              |                           |          |              |                | -2.009 |                           | 163.50      | -J. Ude  | 0.50         | -4.336   |
| - PASS       | 197.30                                                  | . PASS                    | 10.59<br>-0.209<br>-0.00<br>-6.165                                    | . FASS                    | 143.14  | -2.170   | 9.0     | -5.03  | . PASS                   | 174.55        |              |                |         | + PASS                    | 170.22      | 2       | 0.37         |                           |          |              |                | -3.665 | PASS                      | 164.22      | 160.0-   | 0.360        | -4.133   |
| IFFECT       | 2005                                                    |                           | 1.52.3<br>1.65.9<br>1.55.6                                            | FFECT                     |         |          |         | -5.262 | truc:                    | 115.31        | -0.146       |                | -       | FFEET                     | 170.76      |         | 0.973        | •                         |          | -0.106       |                |        | LDEALT                    | 164.51      | -        |              | -7.763   |
| BULTI-PASS   | 26.14                                                   | INVOLVE AULTI-PASS EPPECT |                                                                       | INVOLVE AMETI-PASS EPPECT |         | 2        |         | -5.45  | INACLE MULTI-PASS EFFECT | 175.45        | -0.151       | ?              |         | INVOLUE BULTI-PASS RPFECT | 111.11      |         | 0.973        | INACLAR MULTI-PASS KPFECT | 167.57   | -            |                | -7:75  | INVOLVE MULIF-PASS EFFECT | 1675        | -4.495   | 6.900        | -4.414   |
|              | 235.17<br>-9.215<br>-9.215<br>-9.215                    | 700 347                   | 77.03.                                                                | 10.5                      | 141.31  | 2        | 9.0     | -5.673 | 745 301                  |               | -0.150       |                |         | 708 341                   | 11.71       |         | 0.971        | 10 M                      | 167.94   | -0.11        |                | 7.7    | LVE NOL                   | 105.03      | -2.637   | 0.40         | -7.804   |
| TRAOTAE      | 371-3                                                   | 18.0                      | 19.05                                                                 | 04.87                     | (0) 141 | -6.53    | 727     | 13:45  | 2                        | 155.17        |              | -0.70          | 177.656 | 18 %                      | 153.19      |         | 139.704      | OA#I                      | 151.70   | -            |                | 139.61 | 1440                      | 150.30      | -0.00    | C. 381       | 117. 774 |
| 100.00       |                                                         | 50.00                     |                                                                       | 00.00                     | ***     | 3711     | STEALS  |        | 90.00                    | 310.          | PALE         | 218478         |         | 99.00                     | -           | STRAIN  |              | 20.00                     | URE      | BAIN         | STRACE         |        | 60.00                     | 210.        | FAIN     | RITE         |          |
| TIRE- 200.30 | TEAPGRATURE<br>RECH. STRAIN<br>PLASTIC STRAIN<br>STREAS | fint. 250.00              | TENPERACUEL<br>BLCN. STATN<br>PLASSIC STATE<br>TOTAL SCRAIL<br>STALSS | fire- 100.00              | ******* | AKCH. SI | PLASFIC | STAFES | TIRE- 350.00             | TEMP ABA TUAR | MECh. STPAIN | PLASTIC STRAIN | STRESS  | TIRE- 400.00              | TEMPERATURE | PLASTIC | TOTAL SCRAIN | 1187- 450.00              | TEMPERAT | HECH. SCHALE | PLASTIC STRAIN | STRESS | TIME - 503.33             | TEAPERATURE | IECh. Je | TOTAL STRAIN | STALSS   |

THE PAGE IS BEST QUALITY PRACTICARY.
FROM COLY FURNISHED TO DDC

| Column   C   | F18E- 559.33                                                            | 111                | 7.7                     | BULTI-PASS                 | ILLECT.                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               |        |                          |                                           |                           |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------|-------------------------|----------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|--------------------------|-------------------------------------------|---------------------------|-------------------------------------|
| Sec. 28   16.72   16.72   16.75   16.76   15.72   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.21   157.2   | TENPENATURE<br>BECH: STATIA<br>PLASTIC STRAIN<br>TOTAL SPRAIN<br>STRESS |                    | 30,494                  | 162.55<br>-C.648<br>-2.511 | -0.643<br>-0.455<br>-2.473       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               |        |                          |                                           | 151.76<br>-6.51<br>-6.955 |                                     |
| 156.29 166.29 166.22 160.56 160.56 159.81 157.21 153.24 151.78 150.55 169.55 159.51 159.24 150.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 169.55 16 | finguc.00                                                               | 341                | 10 TATE                 | 11-PASS                    | EPPECT                           | . PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                               |        |                          |                                           |                           |                                     |
| 15C.15 150.59 150.40 159.70 150.00 150.00 150.00 150.00 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 150.10 15 | FAPERATURE<br>IECH. STRAIN<br>LASTIC STRAIN<br>OTAL STRAIN              |                    |                         |                            |                                  | 2.275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                               |        | 157.21                   |                                           |                           | 151.13<br>-C.01:<br>0.951<br>-0.308 |
| 150.15 150.59 159.46 159.18 159.20 150.80 150.69 150.69 150.17 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 151.77 15 | IRE- \$50.00                                                            | 1680               | 1mm 3A10                | 11-F155                    | LPFECT                           | . 2455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                               |        |                          |                                           |                           |                                     |
| 130, 287   -2, 134   -2, 137   -2, 084   -1, 984   -1, 914   -1, 505   -6, 433   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6, 547   -6,   | TECH. STRAIN<br>LESTIC STRAIN<br>GEAL SIRAIN                            |                    | 150.55<br>C.032<br>0.41 | 155.46                     | 159.14<br>-0.073<br>0.6<br>0.947 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00 | 156.63 |                          |                                           |                           | 1.5                                 |
| 150.21 154.48 154.38 154.27 154.15 157.86 157.69 155.89 153.00 151.76 165.21 154.48 155.01 151.70 151.70 151.21 152.41 152.49 153.00 151.70 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.21 15.2 | T#135<br>188- 700.30                                                    | = -                | -7. 13e                 | -2.137                     | -2.083                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               | <br>   |                          |                                           |                           |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ENFINATURE<br>ECH. JEMAIR<br>LASELC STRAIN<br>TALL STRAIN               | 29 75              | 1000                    | 20.00                      | _                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10.00                                                         |        | 25.00                    | 15.00                                     |                           |                                     |
| 150.13 157.59 157.59 157.25 157.32 157.37 156.92 155.38 152.84 1.73 -4.312 -6.46.3 -6.46.3 -6.46.3 -6.65.4 -6.65.4 -6.65.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6.63.4 -6. | INE. 753.00                                                             |                    | 100 000                 | 31-9488                    |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                               |        |                          |                                           |                           |                                     |
| 18COLW 156.89 15e.81 156.73 156.83 156.31 154.96 152.69 151.69 -0.314 -0.061 -0.360 -0.355 -0.057 -0.067 -0.042 -0.025 -0.316 0.00 0.00 0.00 0.000 0.000 0.000 0.000 0.000 1.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.000 1.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.000 1.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.000 1.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.94C 0.000 1.94C 0.94C 0.9 | ENPERATURE<br>ECH. JENAM<br>LASCIC STRAIM<br>OTAL STRAIM<br>TRESS       | 150.13             |                         | 5.50<br>                   |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 53.37<br>-0.06.3<br>-0.44.2<br>-1.760                         |        | 55.36<br>-0.00<br>-1.982 | 152 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - |                           |                                     |
| IMPOLVE MULTI-PASS EFFECT & PASS 150.35 150.12 150.25 150.18 130.11 155.92 155.80 154.61 152.56 151.66 170.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150.35 150. | THE 403.03 EMPERATURE LASTIC STRAIN                                     | 150.00             | 136.69                  | 15. Pt SS                  |                                  | The Art of | 156.43                                                        |        | 25.96                    | 152.69<br>-0.32<br>0.040                  |                           |                                     |
| 1.434 0.434 0.434 0.434 0.434 0.434 0.434 0.444 0.434 0.434 1.15.347 -1.737 -1.737 -1.737 -1.737 -1.747                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | INE 450.03                                                              | 25.05.1<br>20.05.1 | 15e. J2<br>-0.95d       | 156.25<br>-0.056           | 156.18<br>-0.057                 | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 155.92                                                        |        | 154.61                   | 152.5<br>-0.033                           | 151.66                    |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GIAL STAIL                                                              | 1.19.347           | -1.711                  | -1.723                     | -1.713                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9.434                                                         | -1.633 | 1.389                    | 0.424                                     | 0.930                     |                                     |

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| INVOLVE BULTI-PASS EFFECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 150.01 155.20 155.14 155.05 155.04<br>-0.61y -0.654 -0.054 -0.053 -0.053<br>-0.637 0.0 0.0 0.0<br>0.15 0.915 0.015 0.915<br>149.254 -1.614 -1.614 -1.579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| INDUCE RULII-PASS PPECT & PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 150.61 155.26 155.14 155.09 155.04<br>-0.41y -0.454 -0.454 -0.453 -0.453<br>-4.697 0.0 0.0 6.0 6.0<br>-4.697 0.915 0.915 0.915<br>139.254 -1.612 -1.601 -1.579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| INVOLUE MULTI-PASS EPFECT S PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 150.01 155.2v 155.14 155.Cv 155.0v<br>-0.02v -0.06v -0.06v -0.06v -0.04<br>-4.697 0.0 0.0 0.0<br>C.v.5 6.245 C.v.25 C.925 0.v.5<br>138.9vv -1.916 -1.907 -1.885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| INVOLVE NULTI-PASS LPPECT 5 PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 150.01 155.23 155.14 155.09 155.04<br>-0.029 -0.064 -0.064 -0.064 -0.063<br>-4.697 0.0 0.3 0.0 0.0<br>0.925 0.925 0.925 0.925<br>131.946 -1.910 -1.907 -1.897 -1.305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| INVOLUZ GULTI-PASS EPPLCT 5 PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|            | 2.75                                                                   |                   | 151. 15<br>0. 16<br>1. 066<br>1. 094                                                         |                   | 151.15<br>0.00<br>0.00<br>1.000<br>1.144                            |             | 151.15<br>0.135<br>3.0<br>1.997                                          |                           | 151.15                                                             |             | 151.15                                                                  |                           | 151.15<br>0.074<br>1.035                                      |
|            | 151.61<br>6.016<br>9.00<br>1.355<br>2.650                              |                   | 2.50                                                                                         |                   | 151.61                                                              |             | 151.63<br>C.132<br>0.0<br>1.097<br>3.925                                 |                           | 151.63<br>0.056<br>0.0<br>1.023                                    |             | 15.15<br>1.0.1<br>1.0.1                                                 |                           | 5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00  |
|            | 152.23<br>6.346<br>0.3<br>1.655<br>2.567                               |                   | 152.23                                                                                       |                   | 152.23                                                              |             | 152.23                                                                   |                           | 152.23                                                             |             | 152.23                                                                  |                           | 152.23<br>0.066<br>0.0<br>1.035                               |
|            | 151.07<br>0.075<br>1.055<br>2.235                                      |                   | 153.47                                                                                       |                   | 153.87<br>0.021<br>0.9<br>1.002<br>0.618                            |             | 52.67                                                                    |                           | 151.87<br>0.043<br>0.0<br>1.024<br>1.285                           |             | 153.67                                                                  |                           | 153.87                                                        |
|            | 2.969<br>2.955<br>2.969                                                | •                 | 25                                                                                           |                   | 154.40                                                              |             | 156. HO<br>0.11C<br>1.997                                                |                           | 154.11                                                             |             | 154.81                                                                  |                           | 154.83                                                        |
|            | 2.025                                                                  |                   | 154.49                                                                                       |                   | 15.00                                                               |             | 56.75                                                                    |                           | 154.92<br>0.030<br>0.02<br>1.023                                   |             | 154.95                                                                  |                           | 155.32                                                        |
| 2 PASS     | 155.05                                                                 | 5 8445            | 3.<br>2.<br>2.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3.<br>3. | 5 6455            | 155.14                                                              | S PASS      | 155.46                                                                   | S PASS                    | 156.26                                                             | 5 PASS      | 16424K, 157.31<br>-0.322<br>0.0<br>1.031 1.331<br>-0.647 C.406          | S PASS                    | 154.62                                                        |
| EPET       | 155.18<br>0.06<br>1.65<br>1.959                                        | EFFECT            | 155.34                                                                                       | EFFECT            | 154.41                                                              | EFFECT      | 2.643                                                                    | EFFECT.                   |                                                                    | EFFECT      | 164:44<br>0.022<br>0.031<br>0.031                                       | LIFECT                    | 169.16                                                        |
| BULTI-PASS | 1.055                                                                  | BULTI-PASS EPPECT | 157.94<br>6.058<br>1.715                                                                     | HELLE-FASS EPPECT | 162.15<br>-0.15<br>-1.062                                           | BULTI-PASS  | 2.037                                                                    | INVOLVE AULTI-PASS EPPECT | 176.16                                                             | MULTI-PASS  | 189.76<br>-0.197<br>-0.31<br>-5.851                                     | INVOLVE AULTI-PASS EFFECT | 201.14                                                        |
|            | 1.055                                                                  | 188 3470481       | 20.25                                                                                        | 188 3470483       | 23.32                                                               | 100 7470401 | 4.0                                                                      | 111                       | 115.62<br>-1.116<br>0.6<br>1.021<br>-12.598                        | INACTAE NOT | 136.97<br>-1.285<br>-17.366                                             | 100 341                   | 155.14                                                        |
| INCLAR.    | 2500.32<br>-17.570<br>-17.570<br>1.055                                 | 1840              | 2500.00<br>-17.559<br>-17.559<br>1.366                                                       | IN                |                                                                     | 2007        | 25.71-<br>1.0.11-<br>0.0                                                 | 0481                      | 1529. 28<br>- 10. 648<br>- 13. 183<br>13. 50 3                     | TRAC        | 1623.00<br>-10.341<br>-13.140<br>1.031<br>20.769                        | THAC                      | 134.21<br>-9.40<br>-131.11-<br>1.035                          |
| 3.3        |                                                                        | 11.30             | TECPUTATIONS ALCH. STATION PLASTIC STATION TOTAL STATION STRESS                              | 17.30             |                                                                     | 11.00       |                                                                          | 18.00                     |                                                                    | 15.30       | TURE<br>FRAIS<br>STRAIS                                                 | 16.33                     | CUSZ<br>FRAIN<br>STRAIN                                       |
| 1186-      | TERPENTURE<br>NECH. SCHAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STIPLS | *38E*             | TECHENA<br>BICK. S<br>PLASTIC<br>TOTAL S<br>STRESS                                           | -7111             | TERPERATURE<br>RECH. STAIN<br>PLASTIC STAIN<br>FOLK STAIN<br>STRING |             | TLKF. M TURE<br>KICH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | -3811                     | TENPERATURE<br>RECH. STATI<br>PLASTIC STR<br>TOTAL STRAT<br>STRUSS | -3111       | TEMPERATURE<br>MECH. STRAIM<br>PLASTIC STRAIM<br>ICTAL SLUAIN<br>STRESS | rint.                     | TEXPIRATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN |

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|            | 151.15<br>6.677<br>3.0<br>1.634<br>2.292                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           | 151.15<br>0.07<br>1.04<br>2.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 151.15<br>0.0<br>1.040<br>1.140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | 151.15<br>6.679<br>0.3<br>1.041<br>2.152                             |                           | 151.15<br>0.691<br>0.6<br>1.052<br>2.701                                |                           | 151.15<br>0.097<br>0.0<br>1.059<br>2.493                                 |                           | 151.15                                        |
|            | 2.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|            | 152.23<br>6.33<br>1.639<br>2.333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                        |                           | 152.23                                                               |                           | 152.23                                                                  |                           | 152.23                                                                   |                           | 152.23                                        |
|            | 153.87<br>0.059<br>1.039<br>1.741                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|            | 154.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|            | 155.13<br>0.050<br>0.0<br>1.039<br>1.445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| S PASS     | 160.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| S PASS                    | 97.00                                                                | S PASS                    | 202.62<br>-3.268<br>0.0<br>1.352<br>-7.916                              | 5 PASS                    | 243.15<br>-0.405<br>0.0<br>1.059<br>-11.469                              | S PASS                    | 232.11                                        |
| INFECT     | 1.039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| HULTI-PASS | 94.75 -1.442 -0.353<br>12.425 -0.40 -0.353<br>12.425 5.0 0.3<br>1.035 1.039 1.339<br>41.353 -42.557 -10.326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                           | SERT-FASS | 25.50<br>25.50<br>1.00<br>2.50<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | INVOLUE BULTI-PASS EFFECT | 281.91<br>-0.558<br>-1.981                                           | INVOLVE BULTI-FASS EPPECT | 201.24                                                                  | INVOLVE RULTI-FASS EFFECT | 287.79<br>-0.075<br>0.0<br>1.059<br>-25.629                              | INVOLVE MULTI-PASS EPPRCT | -6.836                                        |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                        | DW 2470                   | 1.545                                                                | 111                       | 165.11<br>0.0<br>1.052                                                  | ON SATE                   | 1.267<br>-1.267<br>-1.059<br>-1.059                                      | DIVE NU                   | -1.104                                        |
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                                                                             | 1                         | 1654.05<br>-1.529<br>-11.335<br>-1.641                               | 11                        | 741.92<br>-1.564<br>-1.654<br>112.161                                   | 784                       | 631.94<br>-3.354<br>-7.755<br>1.059                                      | 144                       | 516.15                                        |
| 2.6        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30.51                     | RECHESTIONS RECH. STRAIN PLASTIC STRAIN STRAIN STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13.00     | TENPERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>STAESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 49.00                     | CALLE<br>SCALLE<br>TALLE                                             | 10.00                     | TEMPERATURE<br>BLCN. STRAIN<br>PLASTIC STRAIN<br>JUTAL STRAIN<br>STRESS | 40.00                     | TEACTARTURE<br>RECLI. SCRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | \$0.33                    | CHAS<br>SAATE<br>SERALE                       |
| -7872      | TEMPERATURE<br>BEUN. STANIA<br>PLASFIC STANIA<br>TOTAL STANIA<br>STPESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -2111                     | FERTSPA<br>FIRST<br>FOTAL ST<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TIRE-     | TEMPERATURE<br>PLASFIC STR<br>PLASFIC STR<br>TOTAL STRAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .711                      | TERPERSTONE<br>BECH. STANI<br>PLASTIC STANI<br>TOTAL STANI<br>STRESS | .ANTJ                     | ILCH. STACE STACES                                                      | ring.                     | TENETRATURE<br>RECH. SERALY<br>PLASTIC STRA<br>TOTAL STRAIM<br>STRESS    | -7872                     | TENPLHA FUNG<br>RECH. STRATE<br>PLASTIC STRAT |

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| 152.23 151.63                     | 0. (.0 0.0 f.f.<br>36. 1.06.) 1.060 1.060<br>304 2.704 2.436 2.527         |                                                                                                  | 1.05d 1.05g 1.05g                                                                | 1 151.63 151.15<br>16 0.051 0.094<br>6.0 0.0<br>55 1.055 1.055<br>74 2.696 2.793 | 151.63                                                | 1.052 1.052<br>2.599 2.696                                        | 151.63 151.15<br>0.584 0.087<br>6.0 0.0<br>1.349 1.049<br>2.494 2.591                                                                                     | 151.43 151.15<br>0.05 0.06<br>0.0 0.0<br>1.330 1.033                                                                                       | 1.51 1.55<br>0.0 0.0 0.0<br>0.0 0.0 0.0<br>1.513 1.613<br>1.417 1.516                                                                 |
|-----------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 182.23                            | 2.70                                                                       | 152.23<br>0.369                                                                                  |                                                                                  | 151.63<br>66.051<br>55 1.055<br>74 2.656                                         |                                                       | 2.539                                                             | 33.53                                                                                                                                                     | 23002                                                                                                                                      |                                                                                                                                       |
| 152.23                            | 06.0<br>06.0<br>10.06.0<br>10.0                                            | 152.23<br>0.369                                                                                  |                                                                                  | 25 EL                                                                            |                                                       |                                                                   | 50.2-4                                                                                                                                                    | 200                                                                                                                                        | 130.00                                                                                                                                |
|                                   | 355                                                                        |                                                                                                  |                                                                                  | 152.23                                                                           | 152.24                                                | 2.476                                                             | 152.24<br>0.040<br>0.0<br>1.049<br>2.371                                                                                                                  | 152.15                                                                                                                                     | 152.69                                                                                                                                |
| 35.22                             | 5-4                                                                        | 6.073                                                                                            | 2.03.                                                                            | 155.87                                                                           | 156.08                                                | 1.652                                                             | 157.00<br>0.00<br>1.00<br>1.20<br>1.20<br>1.20                                                                                                            | 162.65<br>-0.010<br>0.0<br>1.030                                                                                                           | 164.89<br>-C.042<br>0.0<br>1.013                                                                                                      |
| -3.187                            | 95.                                                                        | 3.00                                                                                             | -5.457                                                                           | 195.69<br>-0.210<br>6.7<br>1.055<br>-6.222                                       | 197.02                                                | 1.052                                                             | 1.0.237                                                                                                                                                   | 195.22                                                                                                                                     | 10.00<br>1.013<br>1.013                                                                                                               |
| 200.38                            | -1.5<br>-1.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2.5<br>-2 |                                                                                                  | 1.05                                                                             | 206.65<br>-0.291<br>0.0<br>1.655<br>-8.522                                       |                                                       | 1.052                                                             | 207.34                                                                                                                                                    | -0.73<br>-0.175<br>-0.00<br>-0.130                                                                                                         | 192.23                                                                                                                                |
| 5 PASS<br>235.06                  | 977                                                                        | 5 8455<br>234.45<br>-0.490                                                                       | -14.642<br>5 PASS                                                                | 233.01                                                                           | 5 PASS                                                | 1.552                                                             | 227.28<br>-0.445<br>-1.149                                                                                                                                | MULII-PASS RPPECT 5 PASS<br>3 420-47 216.24 211.42 2<br>51 -0.415 -0.365 -0.351<br>0.3 0.0 0.0<br>10.30 1.030 1.030<br>10.10 1.367 -10.362 | 5 PASS<br>194.5e<br>-0.277<br>-0.190                                                                                                  |
| 50                                |                                                                            | 251.27<br>251.27<br>-0.609                                                                       |                                                                                  | 246.62<br>-0.578<br>0.0<br>1.055                                                 | FFECT                                                 | 1.052                                                             |                                                                                                                                                           | 216.24<br>-0.365<br>3.0<br>1.030                                                                                                           |                                                                                                                                       |
| 18 332.04 275.04 255.11 152 -0.63 | 1.360                                                                      | 1880LV1 NULLI-PASS LFFLCT<br>52 LUT. et 267.09 251.27<br>784 -6.674 -6.724 -6.409<br>149 6.3 6.2 | 101 -65.849 -21.249 -17.96<br>161 -65.849 -21.249 -17.96<br>1886-188 - 1886-1886 | 259.43<br>-0.671<br>0.3<br>-1.055                                                | 18 VOLYE MALTI-PASS EFFECT<br>12 265.61 254.10 241.74 | 2352                                                              | 18VOLVE NJTI-1855 EFFECT<br>51 25w.75 245.77 236.93<br>106 -0.658 -0.578 -0.518<br>703 0.0 0.0 0.0<br>049 1.049 1.049 1.049<br>026 -19.340 -17.022 -15.16 | INVCLVE AULII-PASS RPPECT 34 225.53 220.47 216.24 174 0.0 0.0 0.36 175 0.0 1.030 1.030 171 -13.313 -12.251 -11.35                          | LWOLVE BULTI-PASS EFFECT<br>242 -0.312 -0.3130 -0.294<br>0.45 0.0131 -0.313 0.0<br>0.13 1.013 1.013 1.013<br>0.00 -9.811 -9.253 -4.76 |
| 115.00<br>-0.15.00                |                                                                            | 11.00                                                                                            |                                                                                  | 2.000                                                                            | 19E mil.                                              | 32                                                                | 256.75<br>-0.658<br>-19.340                                                                                                                               | 225.53<br>225.53<br>1 -0.451<br>0 1.030<br>1 -13.313                                                                                       | 235.46<br>-0.332<br>0.0<br>1.013<br>-9.831                                                                                            |
| 155.                              | 1-5                                                                        |                                                                                                  | 42 4                                                                             |                                                                                  | 181.62                                                | -5.470 0.0 0.0<br>1.054 1.052 1.352<br>1.33.466 -21.112 -10.296 - | 17.51 2<br>-1.106<br>-5.703<br>1.049                                                                                                                      | 238.04<br>-0.541<br>-5.179<br>1.040                                                                                                        | 199. JO<br>-0. 242<br>-4. 945<br>1. 613<br>136. 024                                                                                   |
|                                   |                                                                            | 70.30<br>Male<br>State                                                                           | 3 3                                                                              | 14414<br>14414<br>14414<br>14414<br>14414                                        | 20.30                                                 |                                                                   |                                                                                                                                                           |                                                                                                                                            | 203.00<br>TURE<br>FRAIN<br>STPAIN                                                                                                     |
| 1                                 | PLASTIC STALLS<br>TOLAL STALLS<br>STRESS                                   | TIME: 70.30 TEMPERATURE MECH. STRAIN PLASTIC STRAIN                                              | STEENS<br>STEENS                                                                 | TERPENATURE<br>RECH. SCRALA<br>PLASTIC STRALW<br>TOTAL STRALW<br>SLALUS          | TLEFCHATURE                                           | PLASSIC STRAIN<br>TOTAL STRAIN<br>STREES                          | Ting 106.00 Tingenature Nich. Sthals Plastic Strals TCTAL Strals STRESS                                                                                   | TEMPERATURE RECM. SFRAIN PLASTIC STRAIN TOTAL STRAIN STRESS                                                                                | TIME 200.00 TEMPERATURE AECH STRAIN PLASTAC STRAIN TOTAL SIRAIA STALIS                                                                |

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| ACE                                  | FROM GOPY FURNISHED TO DEC |
| SP                                   | 3                          |
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| TIME- 150.00                                                            |                                                 | INVOLVE AGE                                                   | AULTI-PASS                      | PPECT                               |                                          |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TEMPERATUPE<br>MACH. SCAIM<br>PLASTIC SCAIM<br>TOTAL STRAIM<br>STREAS   | 22225                                           | 15.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00<br>1.00 | 192.03                          | 196.57<br>-0.235<br>0.999           | -0.223                                   | -6.09<br>-6.09<br>-6.09<br>-6.09<br>-6.09  | 102.54<br>-0.174<br>-0.993<br>-5.315                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25.55.7.<br>25.03.7.                | 0.522                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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    | 151.16<br>0.0<br>0.699<br>1.109          |
| EIRL- 300.33                                                            | 04 87                                           | INVOLVE BULLI-PASS EPPECT                                     | .TI-PASS                        | 13448                               | S PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TEMPERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>STREES                 | 32.55                                           | 32.32                                                         |                                 | 2.56<br>-3.191<br>-6.96<br>-5.67    | 22.20                                    |                                            | 177.26<br>-0.155<br>0.0<br>0.966<br>-4.566                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                   | 151.16<br>0.025<br>0.564<br>0.734        |
| TIME- 150.00                                                            | 78.40                                           | INVOLVE RULTI-PASS EFFECT                                     | TI-PASS                         | EFFECT                              | S PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TEMPERATURE<br>RECH. STATA<br>PLASTIC STRAIM                            |                                                 | 177.34                                                        | -0.165                          | 176.58                              | _                                        | -0.142                                     | 172.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                                                                   | 151.18                                   |
| LUTAL STRAIN                                                            | 13.452                                          | -5.051                                                        | 0.476                           | 1.76                                | 4.605                                    | 0.976                                      | -4.304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 1112- 46C.00                                                            | 04.81                                           | INACLUL MULTI-PASS EPPEUT                                     | 11-PASS                         | EFFECT                              | S PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TYPESATURE<br>TICH. STRAID<br>PLASTIC STRAID<br>TOTAL STRAIN<br>STRESS  | 12.52                                           | 75.00                                                         | 172.49                          | 172.63                              | 10007                                    | 100.00                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 162.26<br>-0.010<br>0.967<br>-2.045 | 156.22<br>6.015<br>0.467                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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151.96<br>6.00<br>6.00<br>10.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>11.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>10.00<br>1 | 151.22<br>0.065<br>0.0<br>0.967<br>0.159 |
| TIRE- 450.06                                                            | 1840                                            | INVOLVE MULTA-PASS APPECT                                     | 11-PASS                         | APPROT                              | 5 PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Tenpekature<br>Alch. Sirala<br>Plastic Strain<br>Iotal Siraln<br>Stress | 151.75<br>-0.019<br>-4.714<br>0.964<br>139.684  | 3000 F                                                        | ******                          | 3.570<br>-0.120<br>0.960<br>-3.570  | 10000                                    | 147.12<br>-0.111<br>0.960<br>-3.245        | 26.55<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0.101<br>-0. | 161.07<br>-0.069<br>-2.059          | 56.24<br>6.9<br>6.9<br>-9.663                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 152.06<br>-0.00<br>0.00<br>-0.215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 151.24<br>-0.002<br>0.460<br>-0.657      |
| TINE 560.00                                                             | 1840                                            | INVOLVE AULTI-PASS RPPECT                                     | TI-PASS                         | EFFECT                              | S PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TEMPERATUME<br>MECH. SINALM<br>PLASTIC STRAIM<br>TOTAL STRAIM<br>STPESS | 152. J1<br>-0.015<br>-4.711<br>0.954<br>119.741 | 1.000                                                         | 10.00<br>0.00<br>10.95<br>1.262 | 165.79<br>-0.107<br>0.954<br>-3.155 | 165.46<br>-0.105<br>-0.954<br>-1.127     | 164.72<br>-0.100<br>0.6<br>6.954<br>-2.972 | 164.24<br>-0.097<br>0.954<br>-2.883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 159.38                              | 154.17<br>-0.324<br>0.9<br>-0.454                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 152.11<br>-0.01<br>0.0<br>-0.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 151.30<br>-0.008<br>0.954<br>-0.244      |
| TIRE- 550.33                                                            | 19.40                                           | INVOLVE AULTI-PASS BPPECT                                     | TI-PASS                         | EFFECT                              | S PASS                                   |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| TENPERATORE<br>RECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STREES | 15.51<br>16.91<br>18.71<br>18.71                | 104.07<br>-0.100<br>0.0<br>0.949                              | -0.094                          | 1.00<br>0.00<br>0.00<br>12.903      | 163.4.2<br>0.0.4.2<br>0.0.4.2<br>0.0.4.2 | 162.83<br>-C.032<br>0.343<br>-2.738        | 15.2.47<br>-0.089<br>-2.998<br>-2.988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 159.31                              | 25.05<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03<br>-0.03 | 152.17<br>-0.018<br>-0.918                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TESPENTION<br>ACCH. STALIS<br>PLASTIC SPAID<br>TOTAL STALIS<br>STULIS   | 35.55                                | 20002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25.007                                     | -6.090<br>-2.090<br>-2.090                 |                                            | -2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54<br>-2.54 | 2000                                       | 20.00                                      | 2000                                 | 152.00<br>0.023<br>0.045<br>0.045          | 5.5.3                                                        |
| FIRE- 650.30                                                            | DART                                 | INVOLUE NULTI-PASS EPPECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TLAPLBATUBE<br>BICH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRIAS | 3775                                 | 20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22.25                                      | 25.55                                      | 10007                                      | 2000 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15x.84<br>-0.079<br>6.0<br>0.942<br>-2.151 | 157.46                                     | 153.73<br>-0.037<br>0.942<br>-1.110  | 152. 16<br>-0.027<br>-0.142<br>-0.746      | 151.42<br>-0.022<br>-0.442<br>-0.443                         |
| 700.43                                                                  | 2 81                                 | INVOLVE NULTI-PASS LPFECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TEMPERATURE<br>AECH. STRAIR<br>PLASTIC STRAIR<br>TOTAL STRAIR<br>STREET | 50.5                                 | 159.74<br>-0.041<br>-2.410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15.06<br>-0.08<br>-0.08<br>-2.08<br>-2.185 | 159.55<br>-0.679<br>0.939<br>-2.343        | 59.42                                      | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 58.63<br>-6.035<br>-2.239                  | 1.000                                      | 153.56                               | 152.16<br>-0.349<br>0.3<br>0.3468          | 151.45<br>-1.624<br>0.939<br>-0.719                          |
| FIRE- 756.00                                                            | 3                                    | INVOLVE AUCTI-FASS LPPEUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TERPETATORE BLCH. STAIN PLASTIC STAIN TGTAL SYMAIN STRESS               | 30.75                                | 154.96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156.79                                     | 158.69<br>-0.076<br>0.0<br>0.937<br>-2.261 | 54.56<br>-2.375<br>-2.437                  | 158.29<br>-0.37<br>0.917<br>-2.140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 154.13<br>0.0<br>0.437<br>-2.146           | 156.15<br>-0.063<br>-0.311<br>-1.785       | 151.10<br>C.0<br>C.0<br>1.11         | 6.5.14<br>0.5.17<br>-C.93C                 | 151.46<br>-0.027<br>0.917<br>-0.754                          |
| TIRE- 439.30                                                            | 7840                                 | INVOLVE AULTI-PASS RPPECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TI-PASS                                    | RFFECT                                     | S PASS                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| TEMPERATURE<br>SECH. SCRALA<br>PLASTIC STRAIN<br>TOTAL SCRALA<br>STRESS | 150.30<br>-0.021<br>-4.711<br>13.590 | 35.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00 | 154.10<br>-0.074<br>-2.206                 | 158.01<br>-0.073<br>5.915<br>-2.162        | 157.41<br>-2.373<br>-2.162                 | 157.64<br>-2.715<br>-2.715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 157.51<br>-0.070<br>0.0<br>0.915<br>-2.000 | 155.91<br>-0.059<br>0.0<br>0.935<br>-1.759 | 153.25                               | 152.10<br>-0.033<br>0.0<br>0.535<br>-0.983 | 151.47<br>-3.023<br>-0.435<br>-0.456                         |
| 450.33                                                                  | 12 %                                 | INVELVE RULLI-PASS EFFICT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TEMPERATURE<br>MECH. STRAIG<br>PLASTIC STRAIR<br>TOTAL STRAIR<br>STRESS | 150.20                               | 157.62<br>-0.072<br>6.931<br>-2.153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 157.54<br>-0.072<br>0.93<br>-2.136         | 157.46                                     | 157.37<br>-0.071<br>0.0<br>6.433<br>-2.102 | 157.1°<br>-0.06 %<br>-2.05 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 157.01<br>-0.06<br>6.0<br>2.933<br>-2.023  | 155.57<br>-0.054<br>0.0<br>0.031<br>-1.734 | 153.12                               | 152.06                                     | 151.47<br>-0.635<br>0.933<br>-0.936                          |
| TIME- 396.60                                                            | TRAG                                 | LEVOLVE BULTI-PASS EFFECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TENPESATURE<br>RECH. STRAIN<br>FLASTIC STRAIN<br>TOTAL SIMAIN<br>STREES | 12.5.4                               | 157.10<br>-0.07<br>-1.0312<br>-1.0312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 157.09<br>-0.370<br>-2.003-                | 157.02<br>-C.070<br>6.0<br>0.932<br>-2.669 | 156.93                                     | 156.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 156.63<br>-0.367<br>-0.432<br>-1.945       | 6.3<br>0.512<br>0.512<br>-1.711            | 152.29<br>-0.342<br>-0.342<br>-1.254 | 152.11<br>-0.336<br>3.31<br>-1.0712        | 5.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00 |
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THIS PACE IS BEST QUALITY PRACTICALLY FRACTICALLY FROM COPY FACESISHED TO DDC

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|                           | 152.67<br>-0.037<br>0.3<br>-1.101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                    | 20.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13.                     | 7.007                                                    |                     | 156.11<br>-0.075<br>0.0<br>-2.240                                       |                    | 156.11<br>-0.075<br>-2.240                                               |                           | 156.11<br>-0.175<br>0.921<br>-2.225                                     |                           | 156.11<br>-0.057<br>-0.936<br>-1.706                                    |                          | 15. 11<br>0.065<br>0.0                        |
| PASS               | 156.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 PASS<br>156.30        | 7.5.7                                                    | . PASS              | 156.36<br>26.33<br>26.32<br>27.23<br>27.23                              | · PASS             | 156.30<br>-0.077<br>0.3<br>6.920<br>-2.277                               | 6 PASS                    | 156.10<br>-0.076<br>-0.921<br>-2.263                                    | 6 PASS                    | 156.30<br>-0.059<br>0.934<br>-1.744                                     | 6 PASS                   | 156.31                                        |
| EFFICT             | 15.17<br>-2.25<br>-2.25<br>-2.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         | 7.55                                                     | BPECT               | 156.37<br>0.037<br>2.292                                                | EFFET              | 156.37<br>-0.677<br>-2.292                                               | LIFECT                    | 15. J.                              | BFFECT                    | 156.39<br>-0.059<br>6.938<br>-1.762                                     | 178 801                  | 156.45                                        |
| TI-PASS            | -6.677                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 18 156.56 156.43 156.37 | 2.5.5                                                    | SEASTING BULLI-PASS |                                                                         | INVOLVE MULTI-PASS | 20.00                                                                    | INVOLVE AULIE-PASS LFFLCT | 15.45<br>-0.077<br>-2.221                                               | INNOLVE AULTI-PASS SFPLCT | 156.55                                                                  | INAOLVE BULTI-PASS BFRET | 157.29<br>0.057                               |
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| 150                | 30103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150.07                  |                                                          | 1840                |                                                                         | 7840               | 30.40                                                                    | 1810                      | 2173                                                                    | 04.81                     | 22528                                                                   | 1810                     | -17.564                                       |
| ?:                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.0                     | MECH. STUALU<br>PLASTIC STRAIU<br>TOTAL STUALU<br>STRESS | :                   |                                                                         |                    | TESP CALTUSE<br>BECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STREES | :                         | TEAPERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | :                         |                                                                         | 10.00                    |                                               |
| T186.              | TEACEM TURE BECH. STATE PLASTIC STATE TOTAL SEALE STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -4011                   | ## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                   | -1011               | TEMPERATURE<br>BECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRAIN | 1111               | 7157. S<br>7157. S<br>7171. S                                            | -7872                     | ######################################                                  | -7111                     | TENFERATURE<br>MECH. STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS | -7872                    | TEAPERATURE<br>ABCH. STRAIN<br>PLASTIC STRAIN |

THIS PAGE IS BEST QUALITY PROFITALITA FROM COLY PHABISHED TO DDG

| 3.00                                  |                           |                                                              |                           | 151.4                                                |         | 151.44<br>0.65<br>1.021<br>1.723                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           | 151.<br>0.0<br>1.026<br>1.026                                        |                           | 51.05<br>1.027<br>1.027                                                   |                           | 1999                                         |
|---------------------------------------|---------------------------|--------------------------------------------------------------|---------------------------|------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------|---------------------------|----------------------------------------------|
| 5<br>                                 |                           | 5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00 |                           | 152.5                                                |         | 152.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           | 152.0¢<br>0.05<br>0.0<br>1.02¢<br>1.739                              |                           | 152.34                                                                    |                           | 152.34                                       |
| 152.73<br>0.63<br>1.671               | £                         | 152.79<br>6.6.110<br>1.087                                   |                           | 152.79                                               |         | 52.75<br>6.05<br>8.05<br>8.05<br>8.05<br>8.05<br>8.05<br>8.05<br>8.05<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           | 152.79<br>0.053<br>0.326<br>1.326                                    |                           | 52.79<br>0.659<br>1.600<br>1.600<br>1.600                                 |                           | 152.73                                       |
| 300                                   |                           | \$3.57<br>\$3.57                                             |                           |                                                      | N.      | 30.0<br>20.0<br>20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           | \$2.00.<br>\$2.00.<br>\$2.00.<br>\$2.00.                             |                           | 2007-                                                                     |                           | 25.00.1<br>15.00.1                           |
| 36.6                                  |                           | 250055                                                       |                           | 30.53                                                |         | 30.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00<br>20.00 |                           | 2000                                                                 |                           | \$3.5£                                                                    |                           | **************************************       |
| 200                                   | \$<br>\$                  | 36.07.7                                                      |                           | 20.05                                                |         | 300000<br>200000<br>200000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           | 300-0                                                                |                           | 20.00                                                                     |                           | 50000                                        |
|                                       | 2. 26                     | 2000                                                         | 6 PASS                    | 156.6                                                | 6 PASS  | 5.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | . 7155                    | 56.57<br>5.036<br>5.036<br>5.036                                     | . PASS                    | 33,32                                                                     | 6 PASS                    | 30.000                                       |
| # # # # # # # # # # # # # # # # # # # | 2.14.2                    |                                                              | BPPECT                    | 20000                                                | EPTECS. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EFFECE                    | 65.72<br>-0.035<br>-1.626                                            | LIFECT                    |                                                                           | PFRC1                     | 13.55                                        |
| 159.23<br>39 0.054<br>71 1.071        | 100CLVE 88111-P185 LFENCT |                                                              | INVOLVE MULTI-PASS BPPECT | 20000                                                | 191CLUE | 55.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INVOLVE BULTI-PASS EPPECS |                                                                      | INVOLVE MULTI-PASS SPRECT | 26.72                                                                     | INVOLVE BULTI-PASS SPPECT | *****                                        |
| 554 -6.239<br>554 -6.239<br>554 0.6   | -1.82.<br>-1.82.          |                                                              | 111 111                   |                                                      | 104 317 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ***                       |                                                                      | 100 SA1                   | 77.53                                                                     | TAE 801                   | 23.35                                        |
| . 35.5.<br>2.5.5.<br>2.5.5.           | . 4                       | 35.5.<br>11.5.5.<br>12.5.5.                                  |                           | 2007.<br>2007.<br>2007.<br>2008.                     | 787     | 25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55<br>25.55 | 941                       | ******                                                               | 340                       | 157.72                                                                    | 1870                      | 2333                                         |
|                                       | 8.3                       |                                                              | 13.00                     |                                                      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.00                     |                                                                      | 16.00                     |                                                                           | 17.00                     |                                              |
| TERPERATION STATES                    |                           | TERFERATE<br>BECH. ST.<br>PLASTIC 3<br>TOTAL SCI<br>STRESS   | 1                         | TESPERATOR STALLS PLASTIC STALLS TOTAL STALLS STALLS | -3812   | ACCE. STRAIN<br>PLASTIC STRAIN<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -3111                     | TECPARTURE<br>MICH. SPAIN<br>PLASTIC STALIS<br>TOTAL STRIE<br>STRESS | -3812                     | TLAP CHATCHIE<br>BECH. SCHALL<br>PLASTIC STRAIN<br>TOTAL STRAIN<br>STPESS | -4212                     | MECH. SCHALA<br>PLASFIC STALA<br>TOTAL STALE |

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|                    | 30.023                                             |                   | 20.00                                                       |                    | 5.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00 |                    | 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|            | 151.44<br>0.090<br>9.0<br>1.053<br>2.067                                |                           | 2.5.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 9.392                      |
|                    | 1.722                                              |                   | 1.229                                                       |                    | 32.77                                                        | ,                  | 152.04<br>0.078<br>0.0<br>1.086<br>2.316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | 152.5%<br>0.0<br>0.0<br>1.053<br>2.5%                                   |                           | 152.04<br>0.08<br>0.0<br>1.05<br>2.622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | 752.04<br>9.088            |
|                    | 152.75                                             |                   | 52.73<br>0.054<br>1.024<br>1.675                            |                    | 52.79<br>6.65<br>1.13<br>1.23                                |                    | 22.02.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 152.79<br>0.353<br>1.053<br>2.493                                       |                           | 52.74<br>0.081<br>2.056<br>2.463                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                    |                                                    |                   |                                                             |                    | 5.55                                                         |                    | 36.03.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                    | 156.10<br>100.10<br>100.10                         |                   |                                                             |                    | 30000                                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | -0.10                      |
|                    | 156.52                                             |                   | 5.52                                                        |                    | 5.55                                                         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | 162.71                                                                  |                           | 73.95<br>-0.20<br>-5.95<br>-5.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | 201.15                     |
| 6 PASS             | -5.625<br>-0.625<br>-3.753                         | 6 PASS            | 1.22                                                        | . 7455             |                                                              | 6 PASS             | 20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 PASS     | 22.33<br>-0.52<br>-12.35<br>-12.35                                      |                           | 27.7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 PASS                 | 236.29                     |
| BPECT              | 1.02                                               | THE               | 35.00                                                       | TOTAL              | ¥                                                            | MITTE              | 15.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BFFECT     | 25.67                                                                   | WEET                      | 56.04<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LITTE                  | 256.16                     |
| 11-6183            | 11.25                                              | PROPER BELLI-FASS | *******                                                     |                    |                                                              | 11-PASS            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| SSTO-ILINU BATOARI | 44.23                                              | 700 347           | 33.55                                                       | INVOLVE BULTI-PASS |                                                              | \$514-1118 BATOART |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                   | 151.050<br>0.00<br>1.054<br>2.663                             | 50.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                   | 152.79<br>0.041<br>f.0<br>1.054<br>2.404                      | 152.79<br>6.374<br>0.3<br>1.051<br>2.327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                   | 155.94<br>0.059<br>1.054<br>1.760                             | 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| 76.03             | TERPERATURE<br>AKCh. SIBAIN<br>PLASTIC STRAIN<br>TOLA. 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| 156.30                                                                   | 0481                                  | 107 3A7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TESPENTER<br>BLCK. STALIS<br>PLASTIC STALIS<br>TOTAL STALIS<br>STRESS    | 1977                                  | 25.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 152.25<br>0.00<br>0.0<br>0.471<br>0.971    | 151.47<br>0.000<br>6.6<br>0.971<br>6.228   |
| *65.33                                                                   | 0,61                                  | 17.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| TLAFERATURE<br>MICH. STRAIB<br>PLASTIC STRAIB<br>TOTAL STRAIB<br>STRESS  | 27775                                 | 12.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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      |
| FIRE - 50.00                                                             | 0. 2.7                                | ****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                             |
| TEMPLIATURE<br>RECH. STRAIR<br>PLASTIC STRAIR<br>JUTAL STRAIR            | 55. 12<br>-6.019<br>-4.712<br>139.401 | 170.55<br>-0.119<br>-0.955                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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151.55<br>-C.034<br>0.0<br>6.955<br>-0.242 |
| 500.30                                                                   | 981                                   | 747                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| TEMPERATURE<br>AFEL: SCHAIN<br>PLASTIC STRAIN<br>STREAS                  | 152.<br>-0.027<br>-0.723<br>139.729   | 165.37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|            | 151.71<br>-0.32<br>0.6<br>0.937<br>-0.444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                    |                                                                                                      | 151.76<br>-6.636<br>0.930<br>-1.672                                                                                               | 151.76<br>-0.038<br>-1.122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|            | 6.034<br>-6.034<br>-6.034<br>-1.622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|            | 5.00 -<br>5.00 -<br>5. | 156.12<br>0.0<br>0.0<br>0.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0<br>1.0                                                       | 150.00                                                                                               | 30.00                                                                                                                             | 19.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|            | 56.03<br>-6.074<br>-2.2037                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|            | 2.00.52<br>2.00.52<br>2.00.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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|            | 161.29<br>-0.394<br>-2.764                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| 6 1455     | 161.72<br>-0.097<br>-2.437<br>-2.633                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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56.20<br>-0.00<br>-2.00<br>-2.00<br>-2.00<br>-2.00<br>-2.00<br>-2.00<br>-2.00<br>-2.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00<br>-3.00 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| PPPECT     | -0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| NULTI-PASS | -2.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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-3.095 -0.099 -0.091<br>22 0.914 6.914 0.94<br>776 -2.614 -2.845 -2.78 | 160.04<br>-0.091<br>0.912<br>-2.731                                                                  | LEVOLVE RULII-PASS RFFECT 12 159.49 159.36 159.29 027 -0.089 -0.088 -0.08 722 0.0 0.0 0.0 930 0.930 0.930 124 -2.641 -2.619 -2.65 | 18VOLVÁ MELTI-PASS EFFECT<br>53 158.92 158.84 158.74<br>722 -3.047 -6.346 -3.08<br>724 6.94 6.928 0.92,<br>424 6.928 0.92,<br>424 -2.375 -2.555 -2.553                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| IN SATOANI | 2.50.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                    | 14VOLVE BULTI-PASS 59 100.20 160.00 0.46 -0.092 -0.091 722 0.0 0.0 912 0.932 0.932 759 -2.736 -2.731 | 153.49<br>-0.009<br>-2.041                                                                                                        | 156.92<br>-2.047<br>-2.926<br>-2.535                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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MBCEL-PASS<br>130 -0.005 -C.004<br>122 0.0 0.0<br>127 0.927 0.927<br>153 -2.541 -2.502                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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Ju<br>-0.030<br>-4.722<br>0.927<br>139.653                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 150.30<br>-C.330<br>322<br>326<br>326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 90.954     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                                                            | 750.00<br>ATURE<br>STRAIR<br>C. 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| Time .     | TESFERATORE<br>BECH. 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STRAIN PLASTIC STRAIN STRESS                                           | TIME - 605.00<br>TEMP PRETURE<br>MECH. STRAIM<br>PLASTIC STRAIM<br>TOTAL STRAIM<br>STRESS                                         | TIBL 50.00<br>TEMPENTER<br>BECL 57818<br>FASIC 57818<br>FOTAL 57.418<br>STRISS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tiste 900.00 Tisterature Accu. 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| TIRE- 1606.30                                                           | 1                                              | INAOTAE PR                          | NULTI-PASS                                 | errect.                             | 6 PASS |                                   |                                            |                           |                                   |                           |                            |
|-------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|--------|-----------------------------------|--------------------------------------------|---------------------------|-----------------------------------|---------------------------|----------------------------|
| TEMPERATURE<br>RECH. STRAIM<br>PLASTIC STRAIM<br>TOTAL STRAIM<br>STRESS | 150.21<br>-0.031<br>-4.722<br>0.925<br>139.625 | 157.80<br>-0.362<br>0.925<br>-2.443 | 157.72<br>-0.082<br>0.0<br>0.925<br>-2.412 | 157.65<br>-0.061<br>0.925<br>-2.418 | 157.58 | 157.14<br>-0.079<br>6.0<br>-2.154 | 157.21<br>-0.374<br>6.6<br>0.925<br>-2.324 | 25.65<br>-2.363<br>-2.543 | 153.15<br>-3.35<br>-1.56<br>-1.56 | 32.45<br>-1.425<br>-1.425 | 51.72<br>-51.92<br>-11.235 |
| TIRE- 1000.00                                                           | In                                             | INVOLVE BU                          | BULTI-PASS                                 | EFFECT                              | • PASS |                                   |                                            |                           |                                   |                           |                            |
| TERPERATURE<br>RECH. SPACE<br>PLASTIC STRAIN                            | 20.25                                          | 157.85                              | 157.72                                     | 157.65                              | 157.56 | -6.679                            | 157.21                                     | 155.60                    | 153.35                            | 35.45                     | 151.73<br>-6.041           |
| ## ESS                                                                  | 139.625                                        | -2.449                              | -2.432                                     |                                     | -2.402 | -2.354                            | -2.328                                     | -2.343                    | -1.546                            | -1.362                    | 6.525                      |

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